0ORDER NO. MD0205129C1

A6

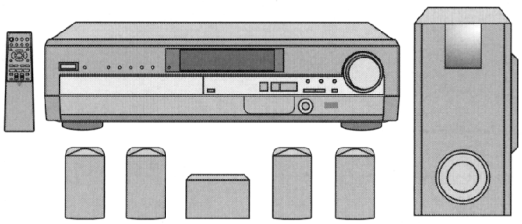
Service Manual

DVD Home Theatre Sound System

SA-HT95P / SA-HT95PC

Colour

(S)... Silver Type



SPECIFICATIONS

Specifications

■ AMPLIFIER SECTION

FTC TTL Power Output	**360 W**
120 Hz-20 kHz, 1.0% total harmonic distortion	
Front	**30 W per channel (6 Ω)**
Center	**80 W (6 Ω)**
Surround	**38 W per channel (6 Ω)**
45 Hz-120 Hz, 1.0% total harmonic distortion	
Subwoofer	**144 W (6 Ω)**
RMS TTL Power Output	**500 W**
1 kHz, 10% total harmonic distortion	
Front	**46 W per channel (6 Ω)**
Center	**106 W (6 Ω)**
Surround	**56 W per channel (6 Ω)**
100 Hz, 10% total harmonic distortion	
Subwoofer	**190 W (6 Ω)**
Input sensitivity/input impedance	
AUX	**250 mV, 10 k Ω**

■ DISC SECTION

Compatible disc types	
DVD-Audio	
DVD-Aideo	
DVD-R (DVD-Video formatted)	
CD (CD-DA)	
Video-CD	
CD-R/RW (CD-DA, Video-CD, or MP3 format)	
Audio	
Number of channels	**5.1(FL, FR, SL, SR, C, SW)**
Video	
Signal system	**NTSC**
Output terminal	**RCA (composite video)**
	S terminal (Y, C)
Progressive scan	**RCA (component video)**
Pick up	
Beam Source	**Semiconductor Laser**
Wavelength	
CD/VCD	**790 nm**
DVD	**658 nm**

■ FM TUNER SECTION

Frequency range	**87.9-107.9 MHz (200 kHz steps)**
	87.5-108.0 MHz (100 MHz steps)
Antenna Terminals	**75 Ω unbalanced**

■ AM TUNER SECTION

Frequency range	**520 - 1710 kHz (10 kHz steps)**

■ GENERAL

Power supply	**AC 120 V, 60 Hz**
Power consumption	**190 W**
Power consumption in standby mode	
	0.28 W
Dimensions (W x H x D)	**430 x 114 x 368 mm**
	(16 15/16” x 4 1/2” x 14 1/2”)

Mass	**8.4 kg(18.5 lb.)**

■ **SYSTEM**

SC-HT95 (P)	**Main unit: SA-HT95 (P)**
	Speaker unit: SB-HT95 (P)
	Subwoofer: SB-W81 (P)
SC-HT95 (PC)	**Main unit: SA-HT95 (PC)**
	Speaker unit: SB-HT95 (PC)
	Subwoofer: SB-W81 (PC)

Notes:

1. Specifications are subject to change without notice. Weight and dimensions are approximate.

2. Total harmonic distortion is measured by the digital spectrum analyzer.

Panasonic

1. Safety Precaution

(This “Safety Precaution” is applied only in U.S.A.)

1. **Before servicing, unplug the power cord to prevent an electric shock.**
2. **When replacing parts, use only manufacturer’s recommended components for safety.**
3. **Check the condition of the power cord. Replace if wear or damage is evident.**
4. **After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.**
5. **Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.**

1.1. Insulation Resistance Test

1. **Unplug the power cord and short the two prongs of the plug with a jumper wire.**
2. **Turn on the power switch.**

3. **Measure the resistance value with ohmmeter between the jumper AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc.**
   Equipment with antenna terminals should read between 3 M Ω and 5.2 M Ω to all exposed parts*.(Fig.1)
   Equipment without antenna terminals should read approximately infinity to all exposed parts.(Fig.2)
   ***Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.**
4. **If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.**

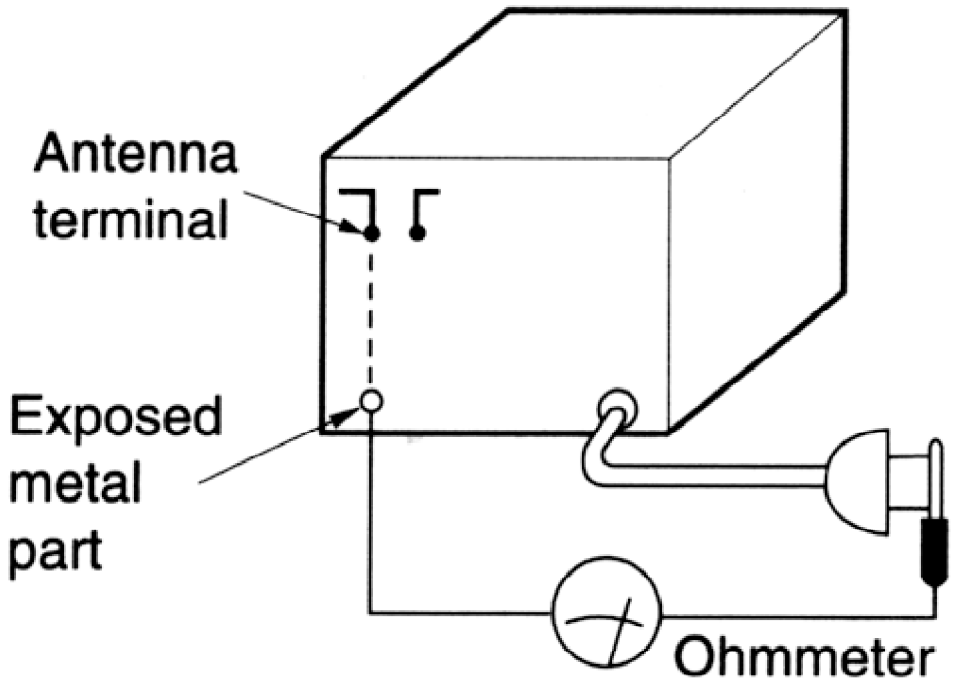


Fig. 1

Resistance = 3MΩ – 5.2MΩ

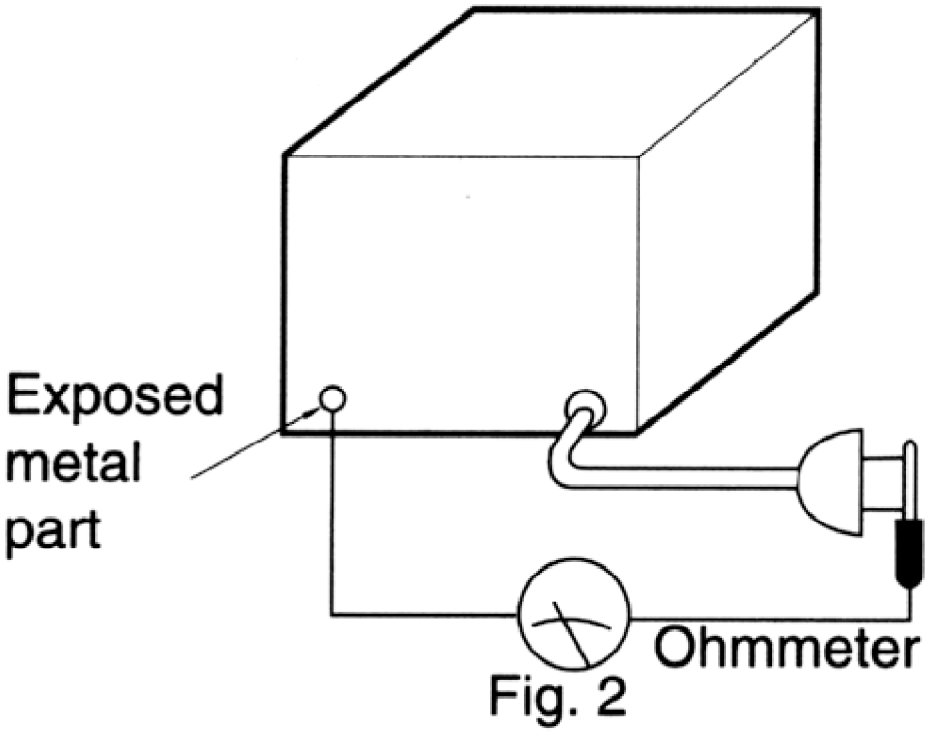


Fig. 2

Resistance = Approx ∞

2. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C702, C716, C527-C530, C561 through a 10 Ω , 5W resistor to ground.

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

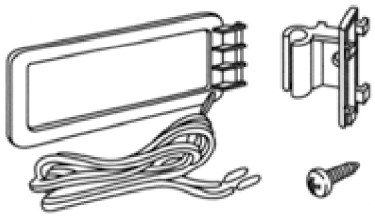
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at AC 120V, 60Hz in NO SIGNAL mode should be ~850 mA .

3. Accessories

AC Power Supply Cord

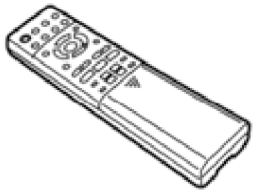
AM Loop Antenna



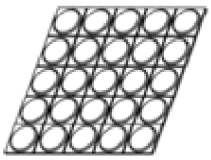
FM Indoor Antenna

Video Connection Cable

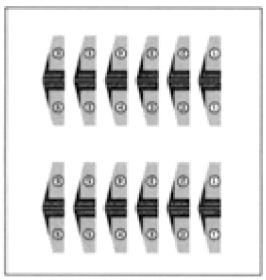
Remote Control Transmitter



Speaker feet

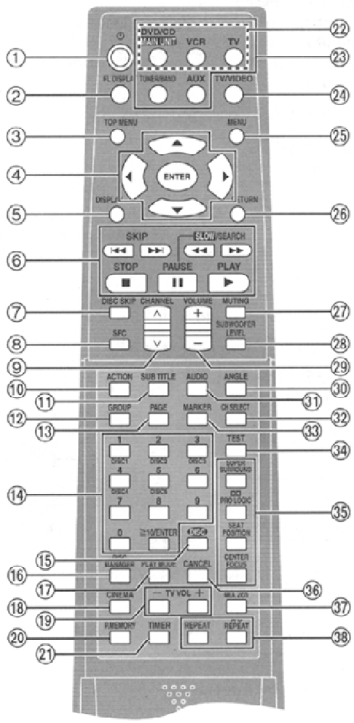


Speaker stickers

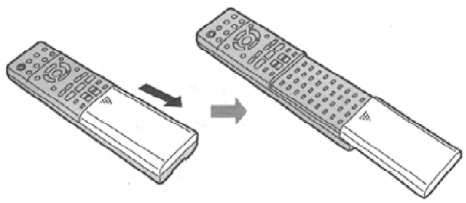


4. Operation Procedures

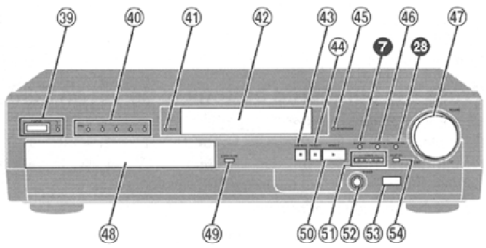
Control reference guide



How to open the remote control



HT95



Buttons ❼ and ㉘ function the same as the controls on the remote control.

Remote control

① Power button [⏻]
② FL display button [FL DISPLAY]
③ Top menu button [TOP MENU]
④ Cursor buttons [▲, ▼, ◀, ▶]/Enter button [ENTER]
⑤ Display button [DISPLAY]
⑥ Basic operation buttons
⑦ Disc skip button [DISC SKIP]
⑧ Sound field control button [SFC]
⑨ Channel select buttons [∧, ∨, CHANNEL]
⑩ Initial settings button [ACTION]
⑪ Subtitle button [SUB TITLE]
⑫ Group button [GROUP]
⑬ Page button [PAGE]
⑭ Numbered buttons (1–9, 0, ≧10/ENTER)
⑮ Disc button [DISC]
⑯ Disc manager button [DISC MANAGER]
⑰ Play mode button [PLAY MODE]
⑱ Cinema button [CINEMA]
⑲ TV volume buttons [– TV VOL +]
⑳ Position memory button [P.MEMORY]
㉑ Timer button [TIMER]
㉒ Equipment buttons and indicators
Select the equipment you want to operate.
- Press [DVD/CD] to operate this unit.
- Press [VCR] to operate a video cassette recorder.
- Press [TV] to operate a television.

These buttons light for a few seconds to indicate the remote control mode.
㉓ Input select buttons
[DVD/CD, MAIN UNIT, VCR, TV, TUNER/BAND, AUX]
Pressing [DVD/CD] or [TUNER/BAND] also turns the unit on. [TUNER/BAND] also switches radio bands.
㉔ TV/Video button [TV/VIDEO]
㉕ Menu button [MENU]
㉖ Return button [RETURN]
㉗ Muting button [MUTING]
㉘ Subwoofer level button [SUBWOOFER LEVEL]
㉙ Volume buttons [+, –, VOLUME]
㉚ Angle button [ANGLE]
㉛ Audio button [AUDIO]
㉜ Speaker channel select button [CH SELECT]
㉝ Marker button [MARKER]
㉞ Test button [TEST]
㉟ Sound field and effect buttons
㊱ Cancel button [CANCEL]
㊲ Mix 2ch button [MIX 2ch]
㊳ Repeat buttons [REPEAT, A-B REPEAT]

Main unit

㊴ Standby/on switch [POWER]
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
Standby/on indicator [⏻/I]
When the unit is connected to the AC mains supply, this indicator lights red in standby mode and lights green when the unit is turned on.
㊵ Disc indicators [DISC 1–5]
㊶ Wake timer indicator [WAKE]
㊷ Display
㊸ Stop, tune mode button [■, TUNE MODE]
㊹ Pause, FM mode button [❚❚, FM MODE]
㊺ Sound field control button [SFC]
㊻ Volume control [VOLUME, DOWN, UP]
㊼ Disc tray
㊽ Open/close button [⏏ OPEN/CLOSE]
㊾ Play, memory button [▶, MEMORY]
㊿ Skip/search, tuning buttons
[⏮/◀◀, ▶▶/⏭, ∨ TUNING ∧]
(51) Headphone jack [PHONES]
(52) Remote control signal sensor
(53) Input select button [SELECTOR]

5. Handling Precaution for Traverse Deck (Optical Pickup)

The laser diode in the traverse unit (optical pickup) may break down due to static electricity of clothes or human body.
Use due caution to electrostatic breakdown when servicing and handling the laser diode.

5.1. Grounding for electrostatic breakdown prevention

Some devices such as the DVD player use the optical pickup (laser diode) and the optical pickup will be damaged by static electricity in the working environment. Proceed servicing works under the working environment where grounding works is completed.

5.1.1. Workable grounding

1. **Put a conductive materials (sheet) or iron sheet on the area where the optical pickup is placed, and ground the sheet.**

5.1.2. Human body grounding

1. **Use the anti-static wrist strap to discharge the static electricity from your body.**

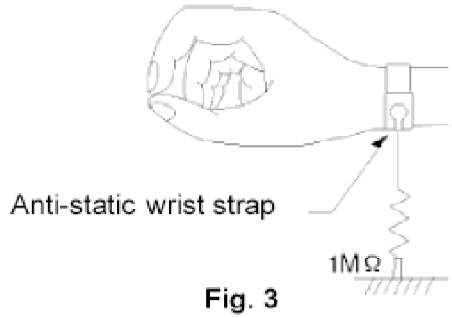


Fig. 3

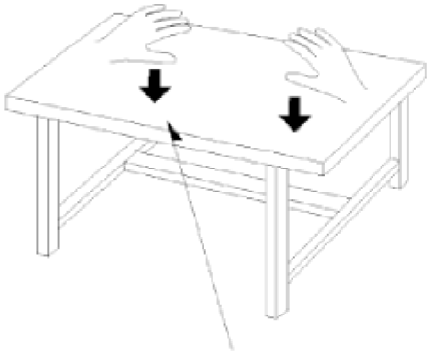


Fig. 4

5.1.3. Handling of optical pickup

1. **To keep the good quality of the optical pickup maintenance parts during transportation and before installatio,. the both ends of the laser diode are short-circuited. After replacing the parts with new ones, remove the short circuit according to the correct procedure. (See this Technical Guide.)**
2. **Do not use a tester to check the laser diode for the optical pickup. Failure to do so will damage the laser diode due to the power supply in the tester.**

5.2. Handling Precautions for Traverse Unit (Optical Pickup)

1. **Do not give a considerable shock to the traverse unit (optical pickup) as it has an extremely high-precise structure.**
2. **When replacing the optical pickup, install the flexible cable and cut its short land with a nipper. See the optical pickup replacement**

procedure in this Technical Guide. Before replacing the traverse unit, remove the short pin for preventingstatic electricity and install a new unit. Connect the connector as short times as possible.

3. **The flexible cable may be cut off if an excessive force is applied to it. Use caution when handling the cable.**
4. **The half-fixed resistor for laser power adjustment cannot be adjusted. Do not turn the resistor.**

6. Precaution of Laser Diode

CAUTION :

This unit utilizes a class 1 laser.
Invisible laser radiation is emitted from the optical pickup lens.
When the unit is turned on :

1. **Do not look directly into the pick up lens.**
2. **Do not use optical instruments to look at the pick up lens.**
3. **Do not adjust the preset variable resistor on the pickup lens.**
4. **Do not disassemble the optical pick up unit.**
5. **If the optical pick up is replaced, use the manufacturer's specified replacement pick up only.**
6. **Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.**

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THC SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

7. Disassembly and Main Component Replacement Procedures

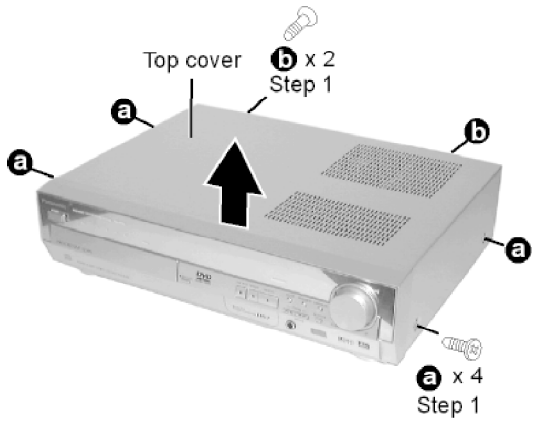
"ATTENTION SERVICER"

Some chassis components may have sharp edges.

Be careful when disassembling and servicing.

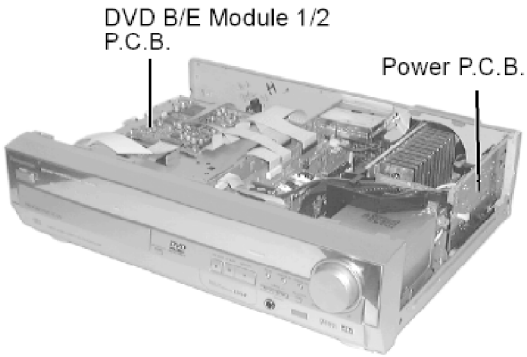
1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures.**
   Special reassembly procedures are described only when required.
3. **Select items from the following index when checks or replacement are required.**

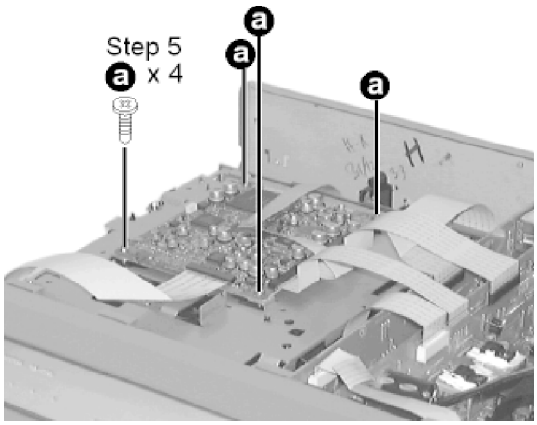
7.1. Checking for DVD B/E Module (1/2) and Power Switch P.C.B..



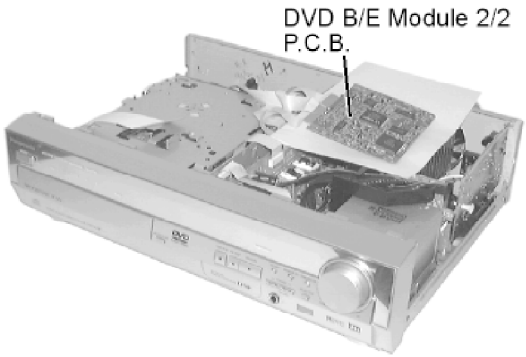
Step 3 Slightly spread open both sides of the cabinet before lifting it upwards to remove.

- Carry out the check for DVD B/E Module (1/2) board, AC input board as per condition indicated in diagram below.





Step 6 Remove FFC from connector. (FP2001)



Step 7 Overturn DVD B/E Module (2/2) P.C.B..

Step 8 Connect back extension FFC to connector. (FP2001)

- Carry out check for DVD Module (2/2) board as per condition in diagram below.

[Caution] Lay thick paper below the board.

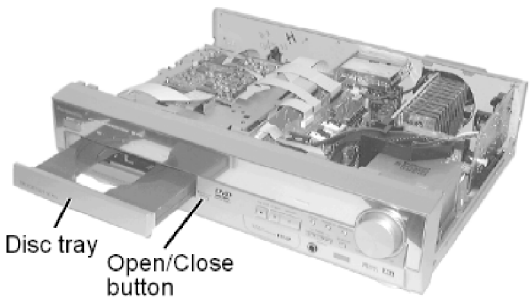
7.2. Checks for Panel P.C.B., DSP P.C.B., ASP P.C.B., DVD B/E Module (2) P.C.B.

- Carry out (Step 1) - (Step 3) in section 7.1

Step 1 Open the disc tray. There are 2 methods of opening the disc tray, i.e., electrical and manual.

7.2.1. When opening electrically

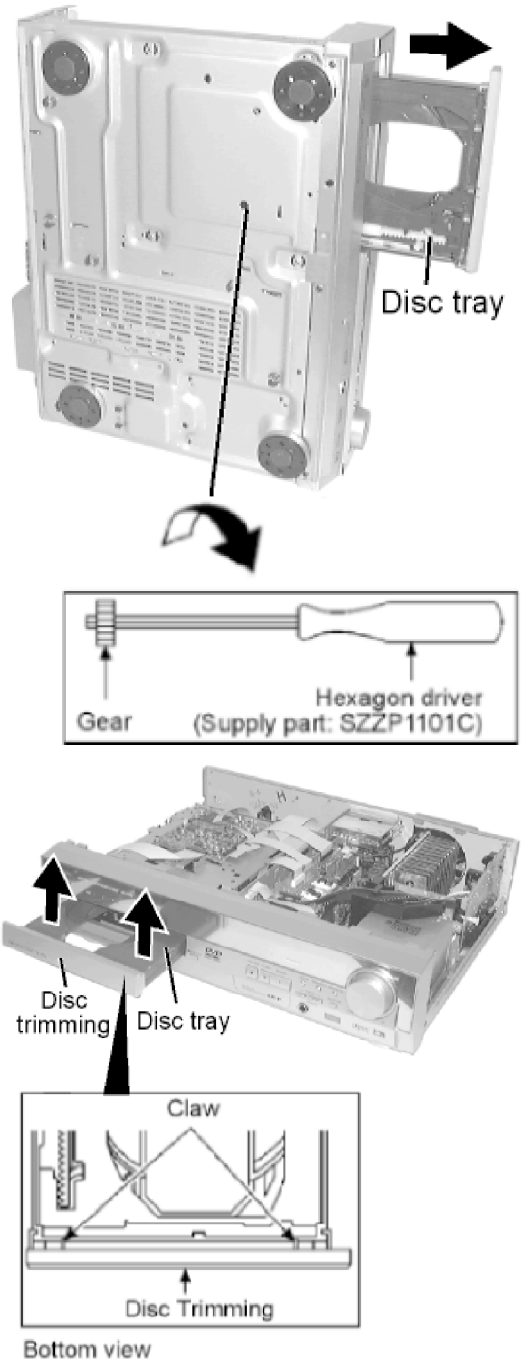
Step 1 Connect the AC cord and turn on the power supply.



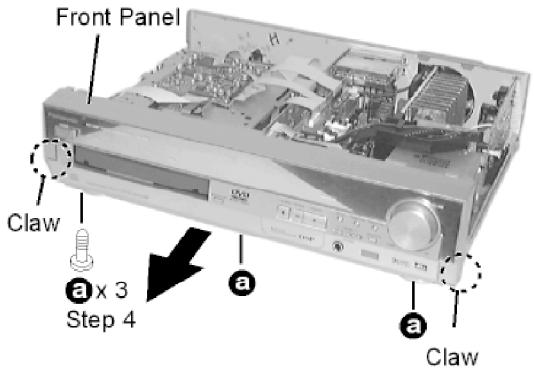
Step 2 Press OPEN/CLOSE button to open the disc tray.

7.2.2. When opening manually

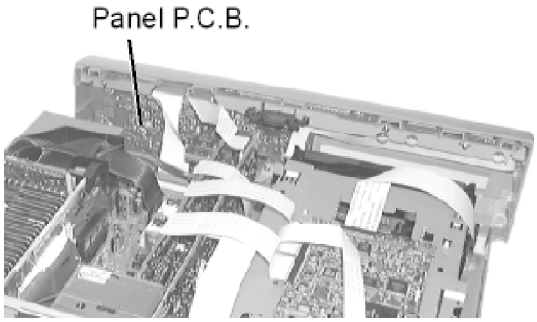
Step 1 Insert the hexagon driver (gear bit) into the hole at the bottom face of the main body and turn it in the direction of the arow to open the disc tray.



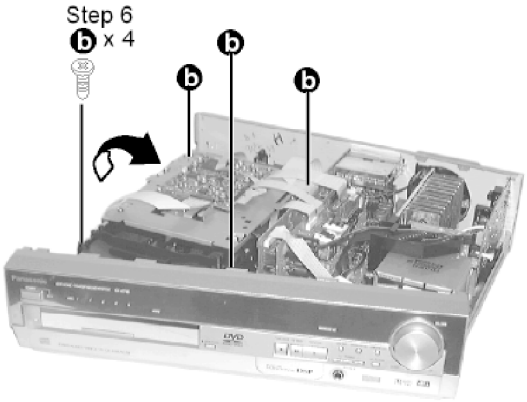
Step 2 Release claw at 2 locations and remove tray trimming.
Step 3 After removing the tray trimming, push the disc tray back inside the main unit.



Step 5 Release claw at 2 locations and pull out the front panel.

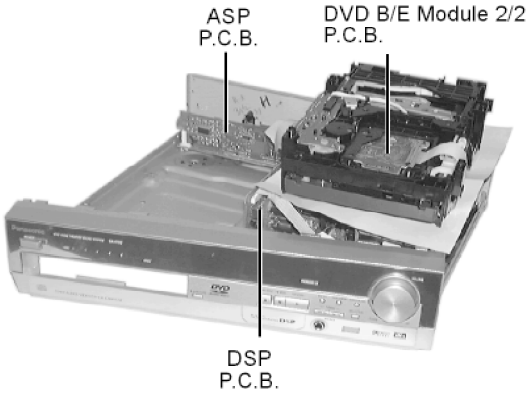


- Carry out checks with Panel P.C.B. in the condition as indicated in diagram above.



Step 6 Over turn the DVD F/E module loading unit in the direction of arrow.

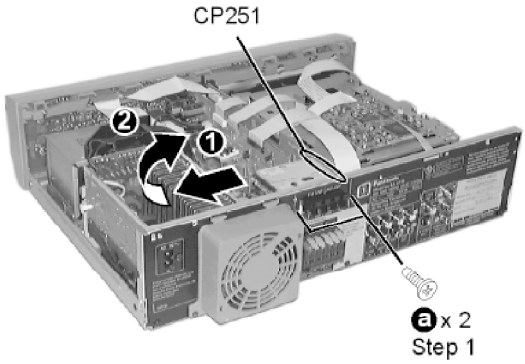
- Carry out checks with DSP P.C.B. and ASP P.C.B. in the condition as indicated in diagram below.



[Caution] Lay thick paper below the board.

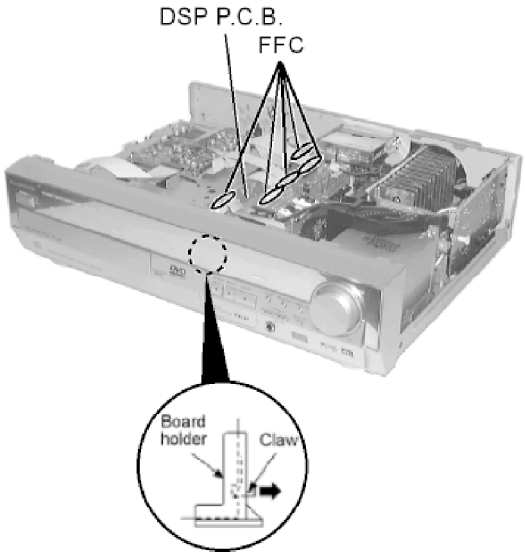
7.3. Checks for DVD Regulator P.C.B.

- Carry out (Step 1) - (Step 3) in section 7.1



Step 2 Pull the tuner unit in direction of arrow(1). Disengage it from connector and remove in direction of arrow (2).

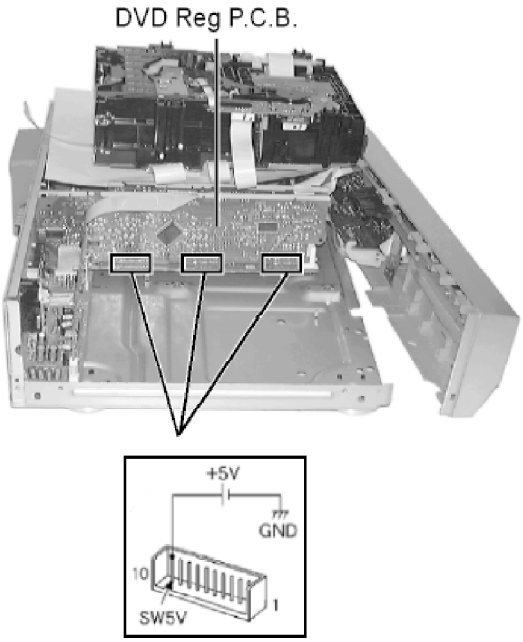
Step 3 Pull out FFC at CN805, CN806, CN1, CP6251 and CN1304.



Step 4 Detach DSP P.C.B. while removing tab on board holder.

Step 5 Connect back FFC at CN1, CP6251 and CN1304.

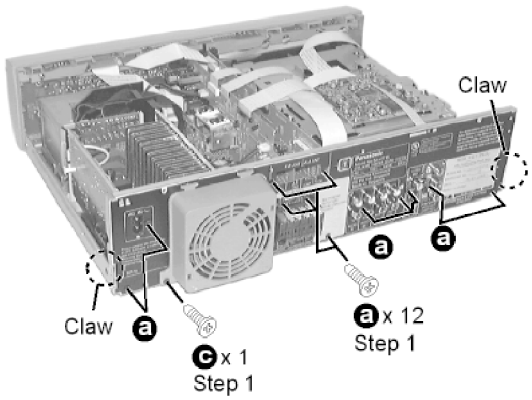
- Carry out checks with DVD Regulator P.C.B. in the condition as indicated in diagram below.



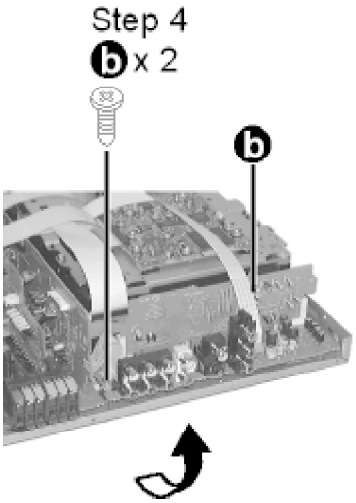
Step 6 Supply +5V from external power source to pin 10 terminal of connector (CP801) on main board.

7.4. Checks for Input P.C.B.

- Carry out (Step 1) - (Step 3) in section 7.1

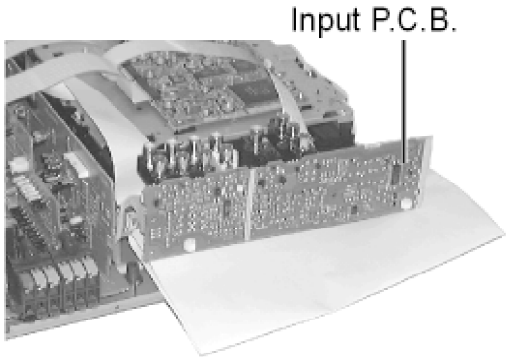


Step 2 Unplug connector (CP704).
Step 3 Remove claw at 2 locations and detach the rear panel.



Step 5 Let the Input P.C.B. stand up.

- Carry out chaecks with Input P.C.B. in the condition as indicated in the diagram below.



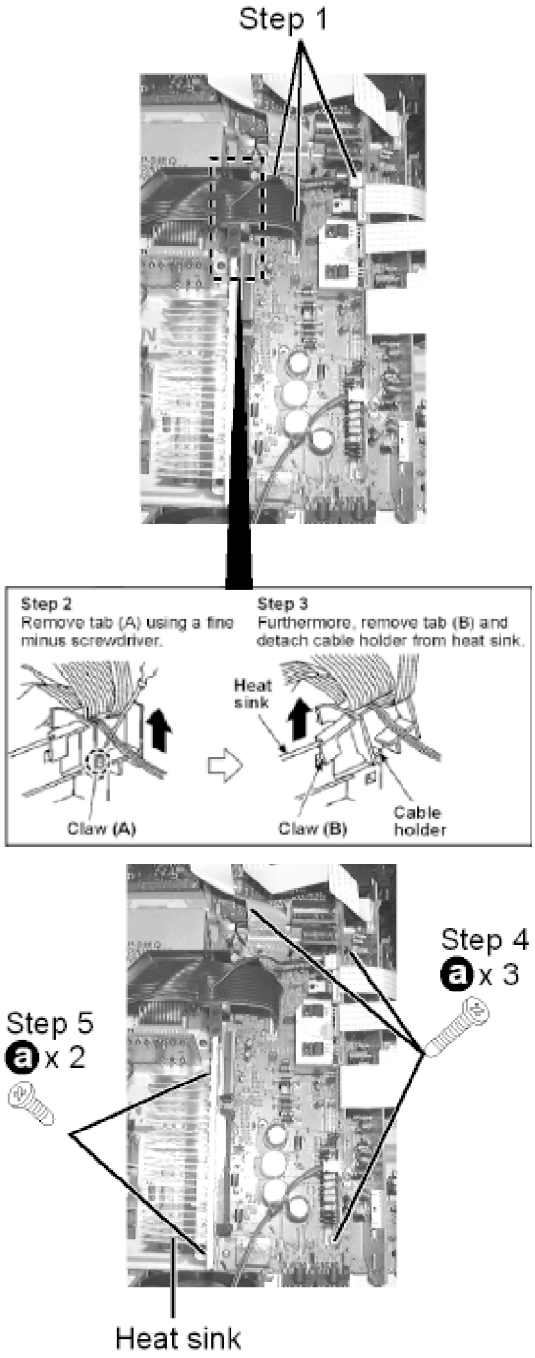
[Caution] Lay thick paper

7.5. Check for Power P.C.B.

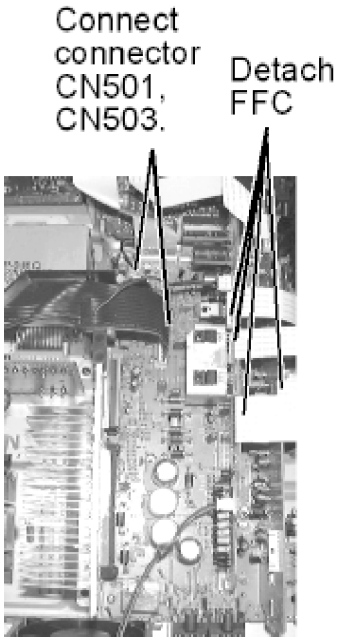
- Carry out (Step 1) - (Step 3) in section 7.1

- Carry out (Step 1) - (Step 3) in section 7.4

Step 1 Remove connector at CP705, CN503 and CN501.

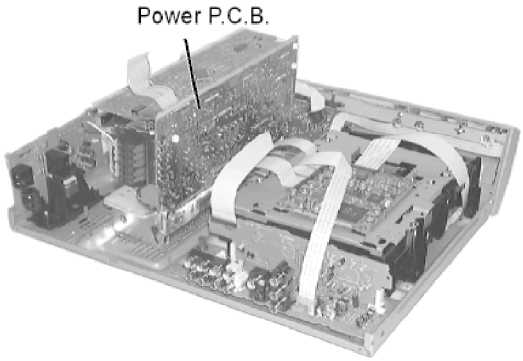


Step 6 Connect back connector at CN501 and CN503.



Step 7 Remove wire from connector CN102.
Step 8 Detach FFC at CN1, CP6251, CN1304 and CN806.

- Carry out checks with Power P.C.B. in the condition as indicated in the diagram below.

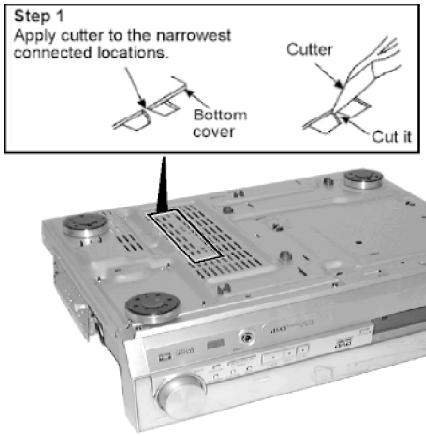


Step 9 Let the Main P.C.B. stand up.

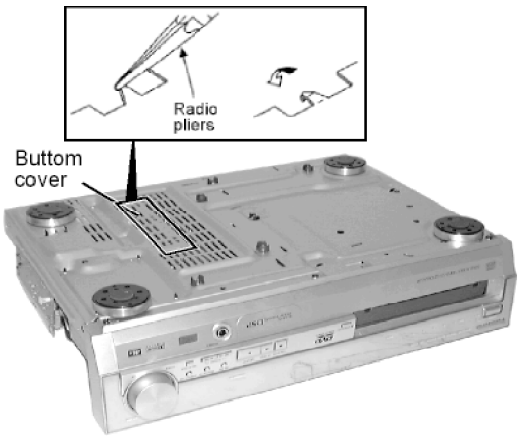
7.6. Replacement of the Power IC

- Carry out (Step 1) - (Step 3) in section 7.1

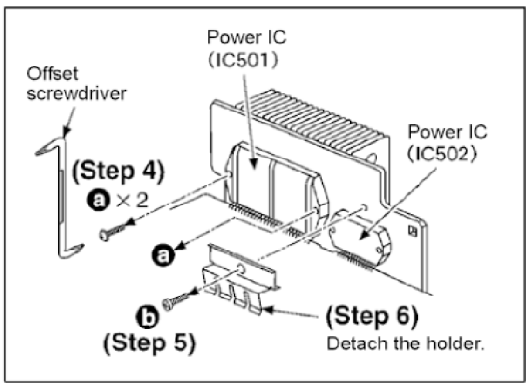
Step 1 Cut out the connections located on the bottom cover. (6 points)



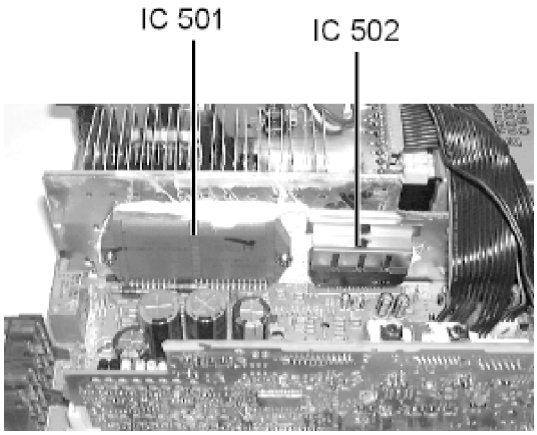
[Caution] The bottom cover is reused after replacement . Take care, not to lose it.



Step 2 Bent the cut portion on the bottom cover.



Step 3 Remove solder on Power IC.

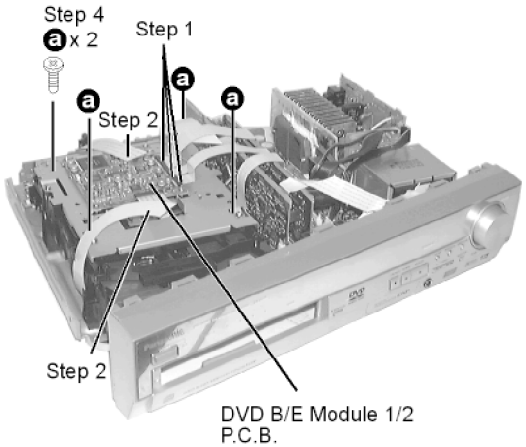


[Caution]

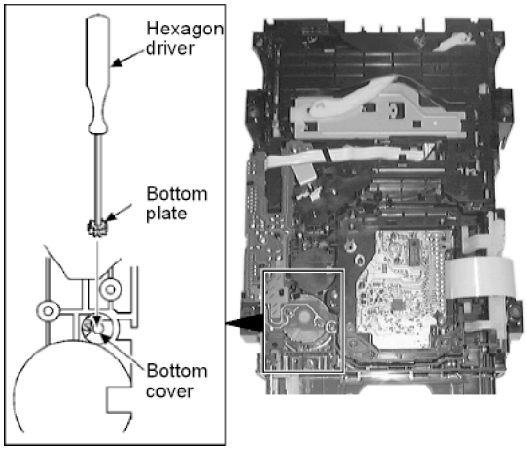
1. **Apply compound grease (RFKX0002 or equivalent heat dissipating compound) on the rear face of the power IC when attaching Power IC.**
2. **Tighten adequately the 3 screws after replacement of Power IC.**
3. **Use the offset screwdriver for tightening and loosening of screws.**

7.7. Replacement of DVD Traverse Unit

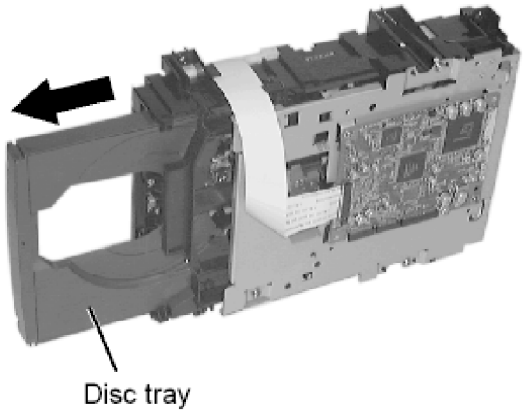
- Carry out (Step 1) - (Step 3) in section 7.1
- Carry out (Step 1) - (Step 6) in section 7.2



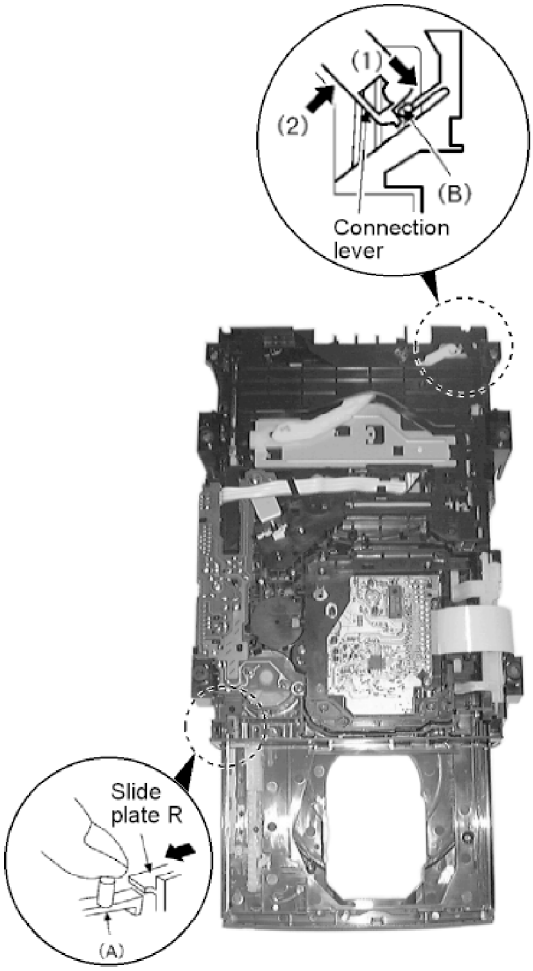
Step 1 Pull out the FFC at 3 locations.
Step 2 Detach the connector.
Step 3 Detach the DVD loading unit.
Step 4 Remove the top plate.



Step 5 Insert the hexagon driver (gear) into the hole.

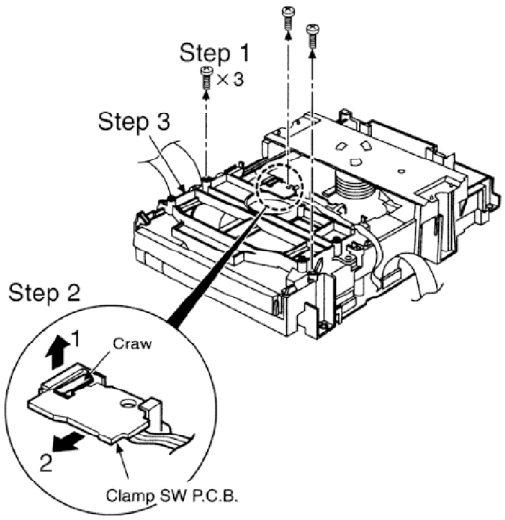


Step 6 Turn the hexagon driver clockwise to fully open the disc tray.
Step 7 When tab (B) is pressed in direction of arrow(1), the connection lever moves in the direction of arrow (2).
Step 8 Turn the hexagon driver clockwise with tab (A) in depressed condition.



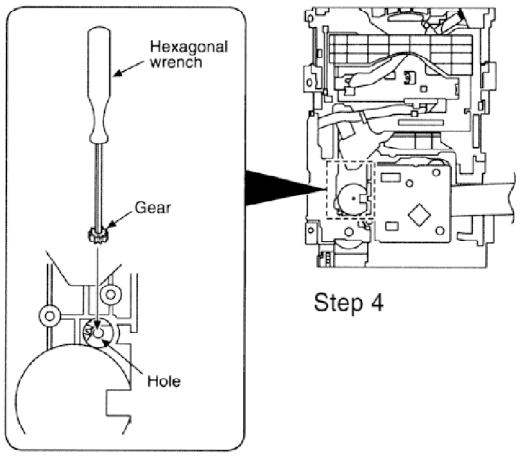
Step 10 Let the Main P.C.B. stand up.

7.8. Disassembly and assembly of the Disc Tray

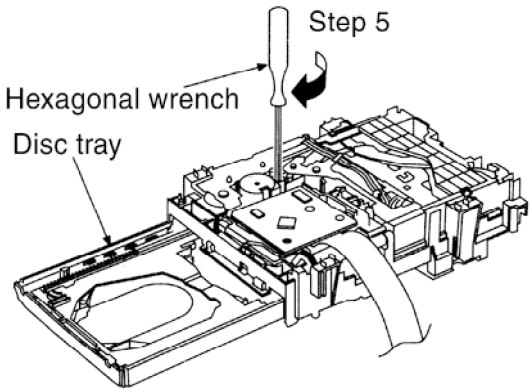


Step 2 With lifting the claw in the direction of arrow 1, draw the clamp SW P.C.B. in the direction of arrow 2.

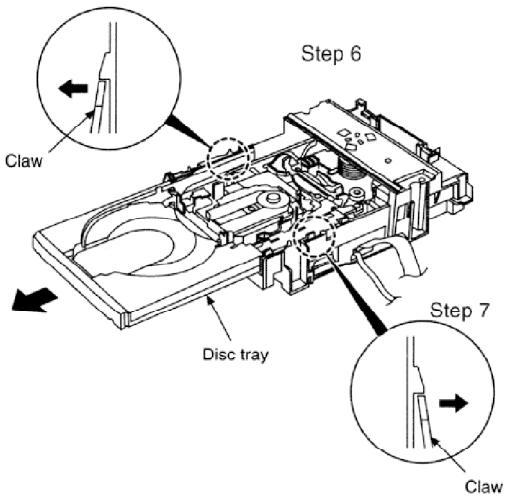
Step 3 Remove the mechanism cover.



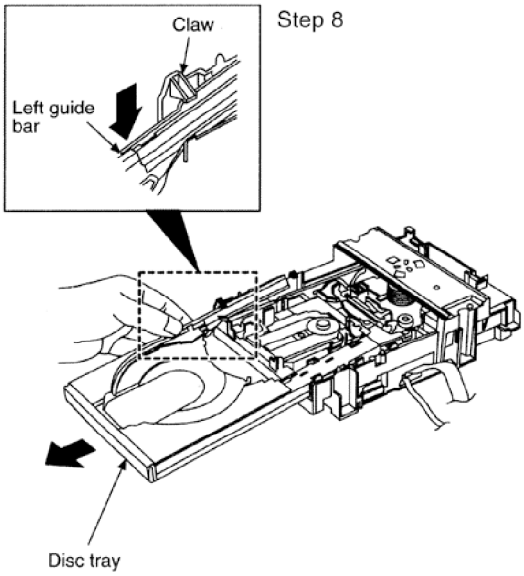
Step 4 Insert the gear with hexagonal wrench into the hole.



Step 5 Rotate the hexagonal wrench in the direction of arrow (clockwise), and then open the disc tray fully.

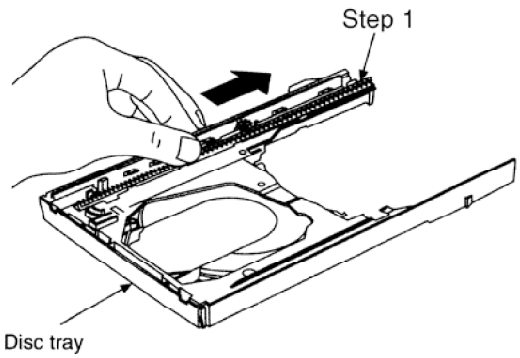


Step 6 Upset the CD changer unit again.
Step 7 Release both the claws, and then draw the disc tray.

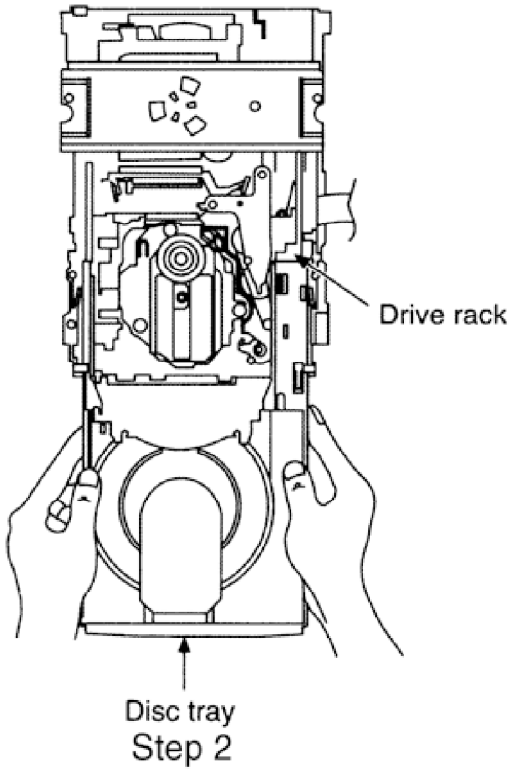


Step 8 With forcing the left guide bar manually because the left guide bar interfers with claw, draw the disc tray.

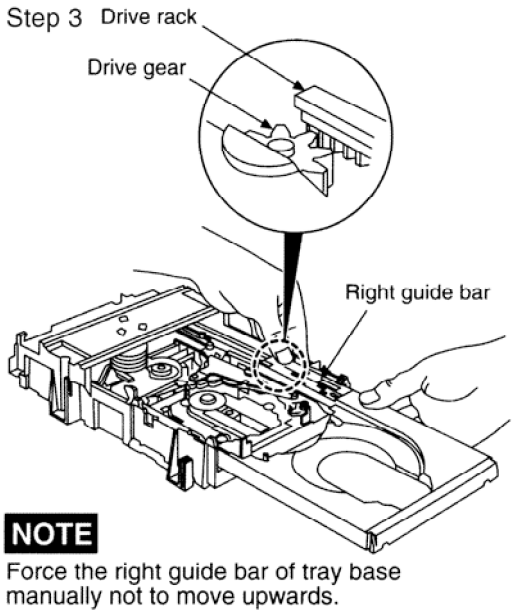
- Installation of the disc tray after replacement



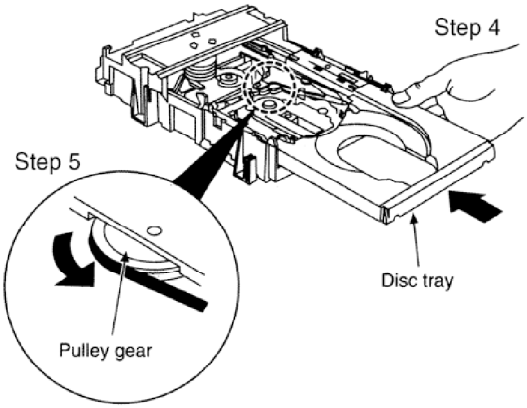
Step 1 Slide the drive rack fully in the direction of arrow.



Step 2 Holding the drive rack not to move, install the disc tray.



Step 3 Align the drive rack with the driver gear.

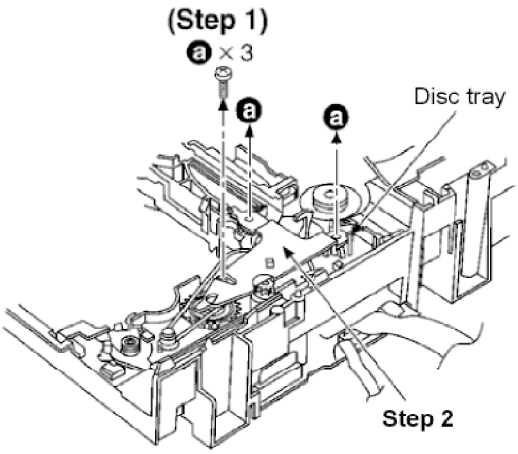


Step 4 Holding the disc tray manually, rotate the pulley gear in the direction of arrow.
Step 5 Rotate the gear 5 or 6 times manually, and then push the disc tray.

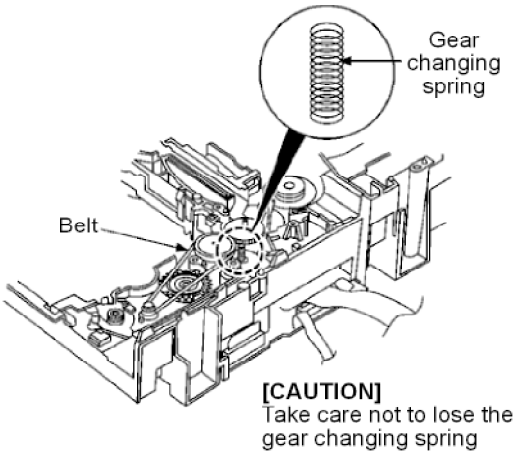
7.9. Disassembly and assembly of Mechanised Dirve part

7.9.1. Disassmbly of Mechanised Drive Part

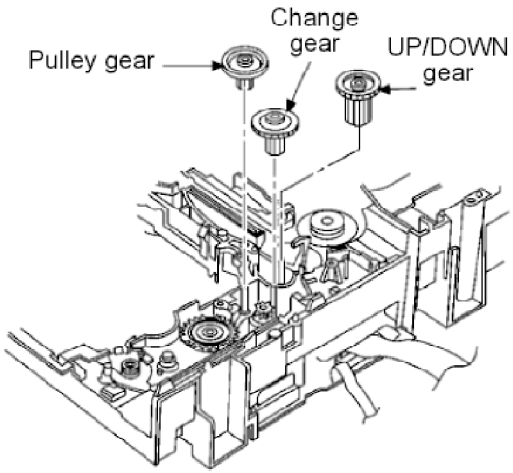
- Carry out (Step 1) - (Step 3) in section 7.1
- Carry out (Step 1) - (Step 6) in section 7.2
- Carry out (Step 1) - (Step 10) in section 7.7
- Carry out (Step 1) - (Step 8) in section 7.8



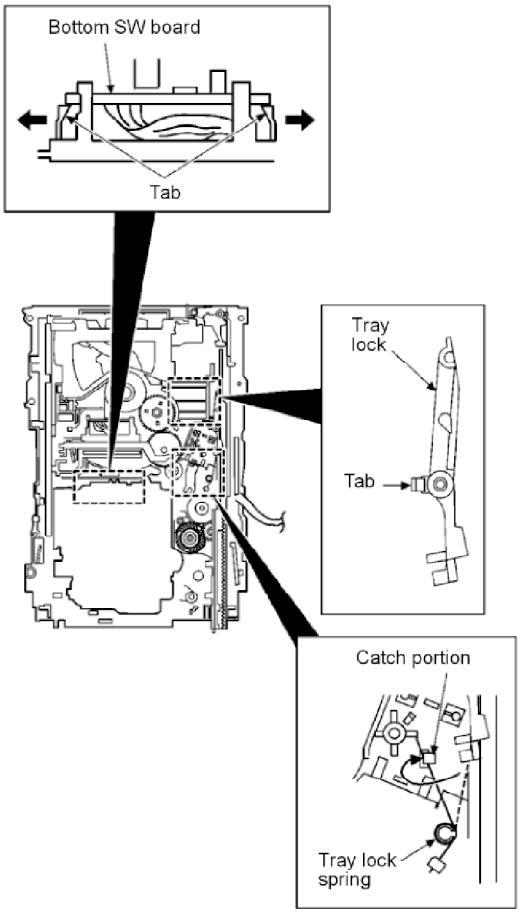
Step 2 Remove tab at 1 location and detach the pitch plate.



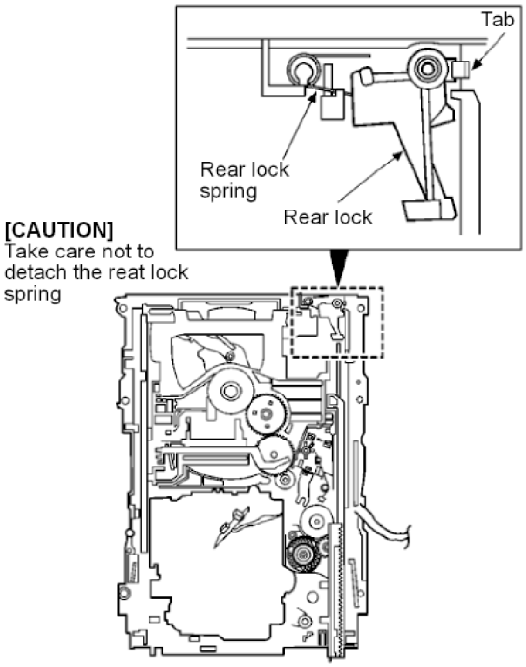
Step 3 Remove belt and gear changing spring.



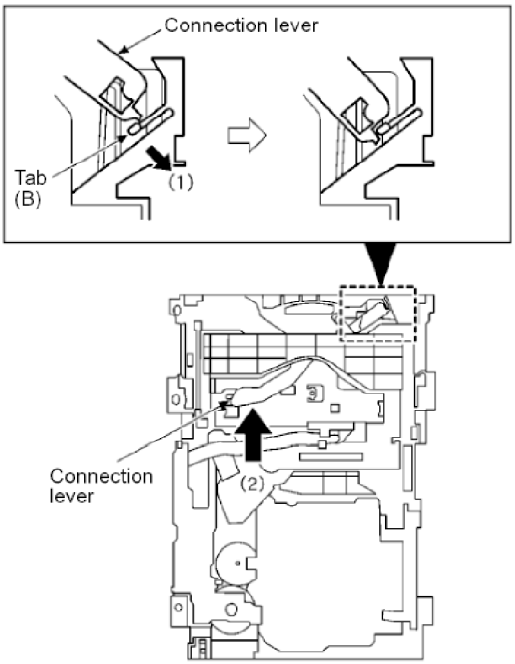
Step 4 Remove pulley gear, change gear, UP/DOWN gear.
Step 5 Remove tab at 2 locations and detach the bottom SW board.



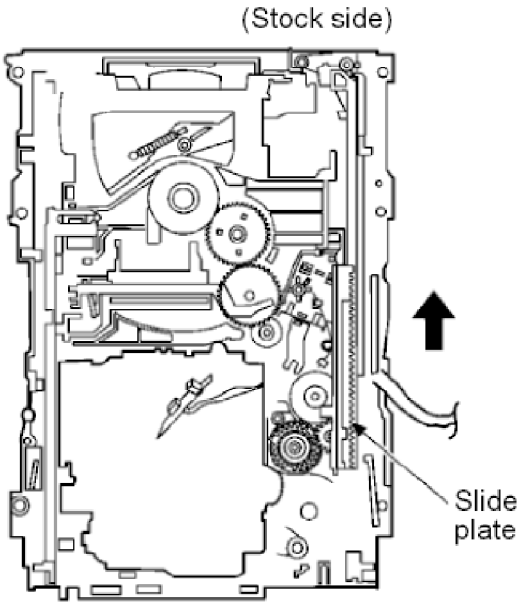
Step 6 Temporarily attach the tray lock spring to the catch portion.
Step 7 Remove tab 1 location and detach tray lock.



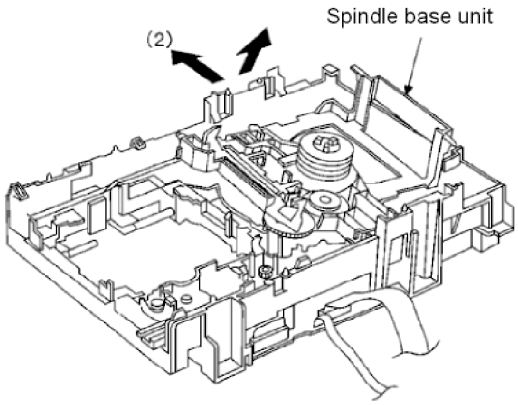
Step 8 Remove tab 1 location and then remove the rear lock.



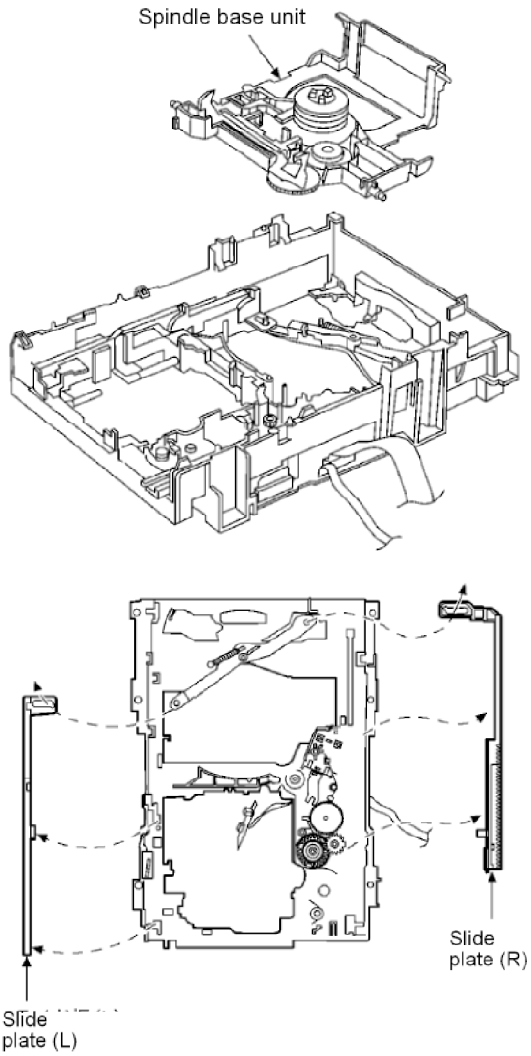
Step 9 While pressing tab (B) in direction of arrow (1), press down the connection lever in direction of arrow (2).



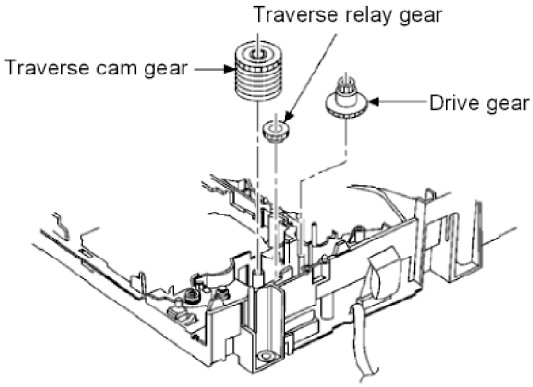
Step 10 Move slide plate (R) until the edge of stock side.



Step 11 Lift up the left side of spindle base unit first in direction of arrow (1) and remove in direction of arrow (2).



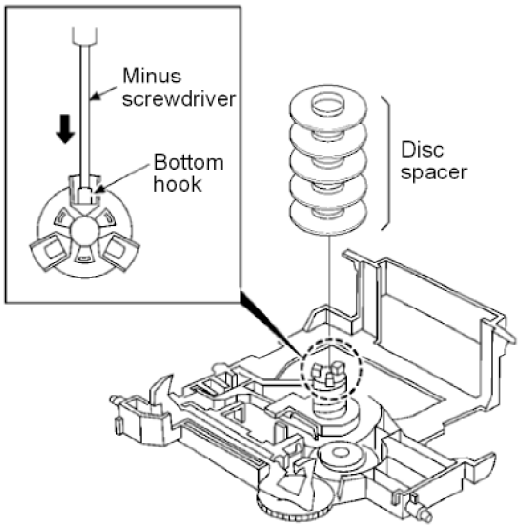
Step 12 Remove slide plate (R) and slide plate (L).



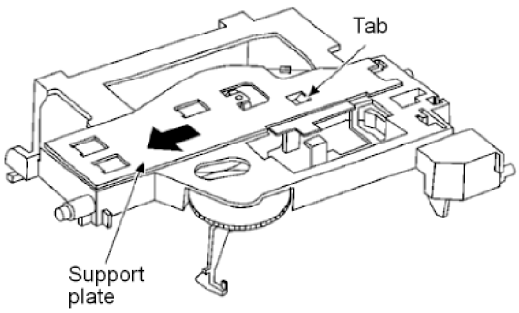
Step 13 Remove traverse relay gear, traverse cam gear and drive gear.

7.9.2. Disassembly and assembly of Spindle Base Unit

Step 1 Pull out 5 numbers of disc spacers after pressing down the bottom hook with a fine-tip minus screwdriver.

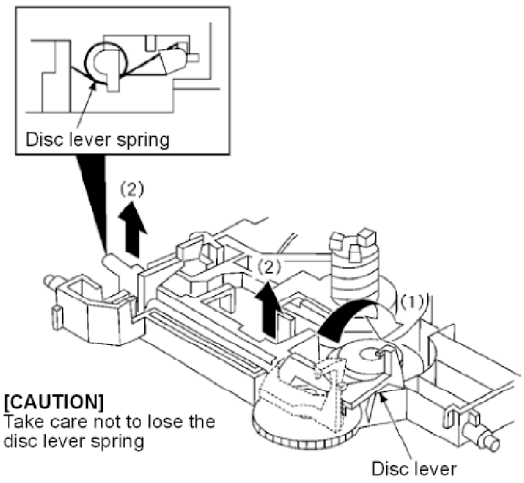


Step 2 While pressing the tab, slide the support plate in direction of arrow and remove the support plate.

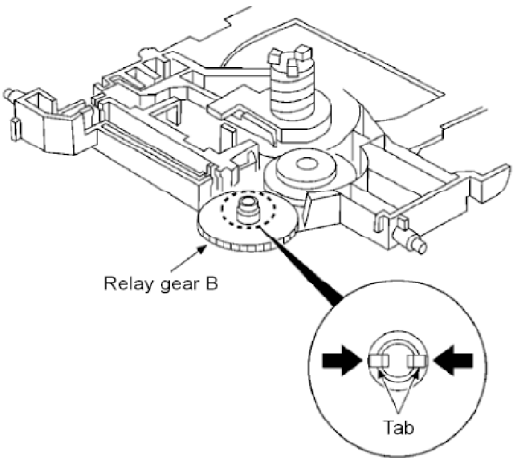


Step 3 Pull out the disc lever with the disc lever turned in the direction of arrow (1).

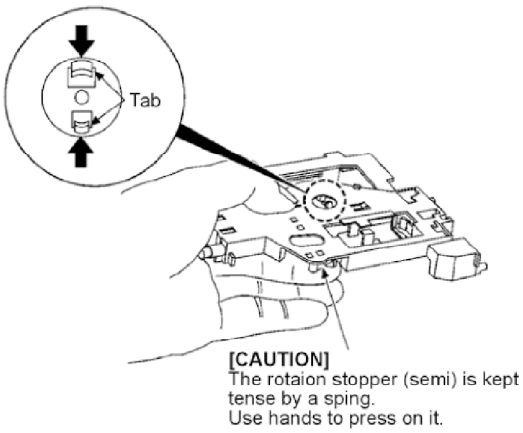
(Installation diagram for disc lever spring)

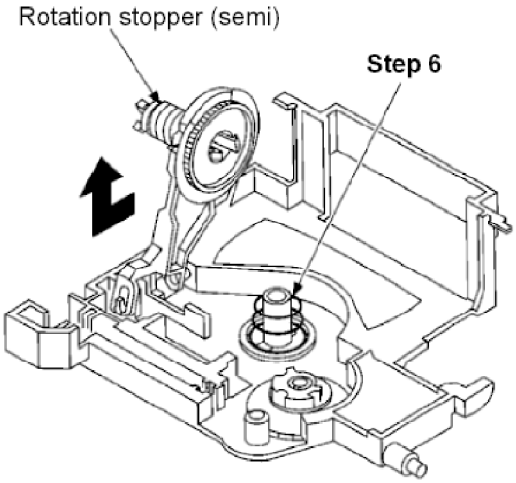


Step 4 Remove tab at 2 locations and pull out relay gar (B).

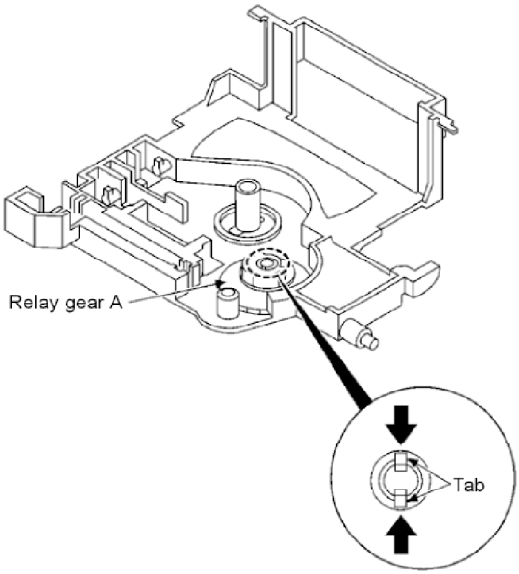


Step 5 Remove tab at 2 locations.

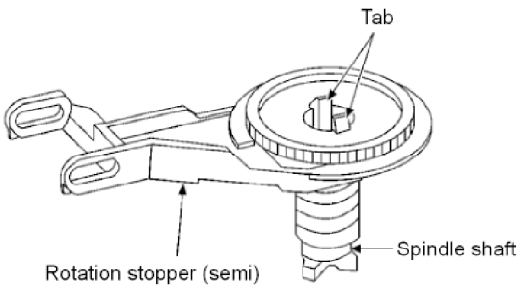




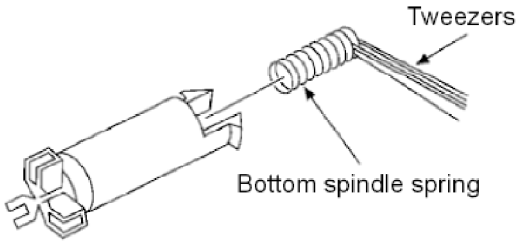
Step 6 Remove cushion spring.
Step 7 Remove rotation stopper (semi) in direction of arrow.



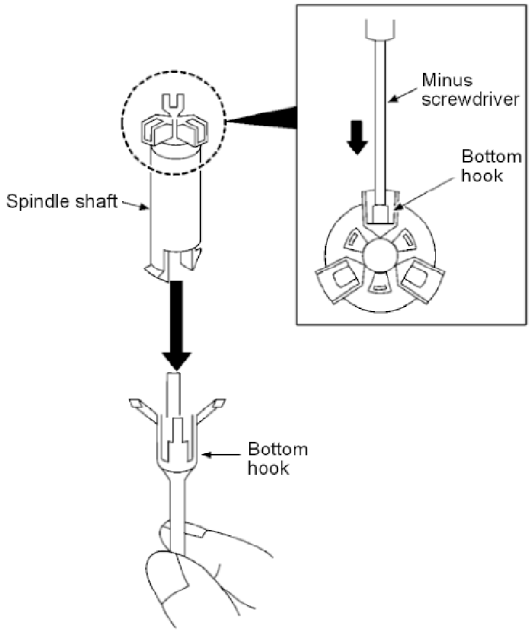
Step 8 Remove tab at 2 locations and pull out relay gear (A).



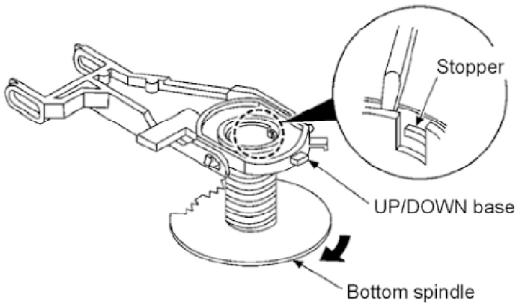
Step 9 Remove tab at 2 locations and detach the spindle shaft.



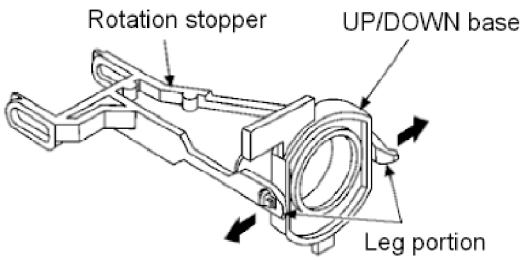
Step 10 Remove bottom spindle spring with a pair of tweezer.



Step 11 Press down the bottom hook with a fine-tip minus screwdriver.
Step 12 Hold the axis part of the bottom hook and pull it out.



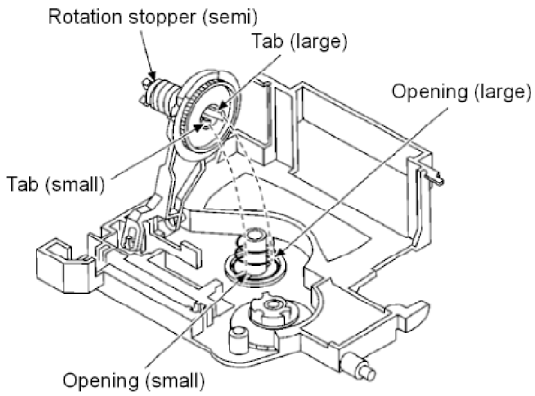
Step 13 Turn the bottom spindle in the direction of arrow until it hits against the stopper.
Step 14 Insert a fine-tip minus screwdriver between the bottom spindle and UP/DOWN base and slightly raise the bottom spindle for it to go over the stopper. Then turn the bottom spindle and remove it.



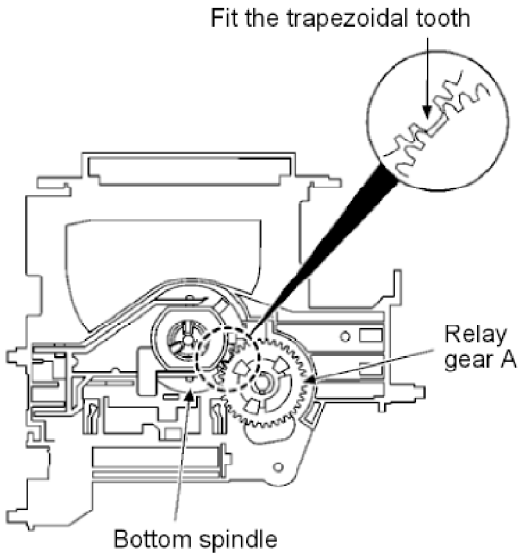
Step 15 Rotate the UP/DOWN base 90°. The spread the leg portion of the rotation stopper and remove the UP/DOWN base.

7.9.3. Installation of Rotation Stopper (Semi)

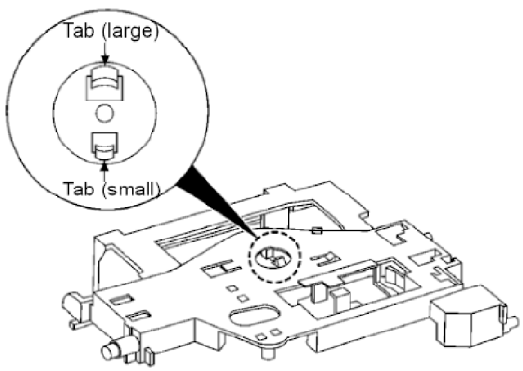
Step 1 Fit the tab on rotation stopper (semi) into the opening on spindle base. (Be careful as the size of tab differs).



Step 2 Lower down the rotation stopper (semi) and fit the trapezoidal tooth between bottom spindle and relay gear A.



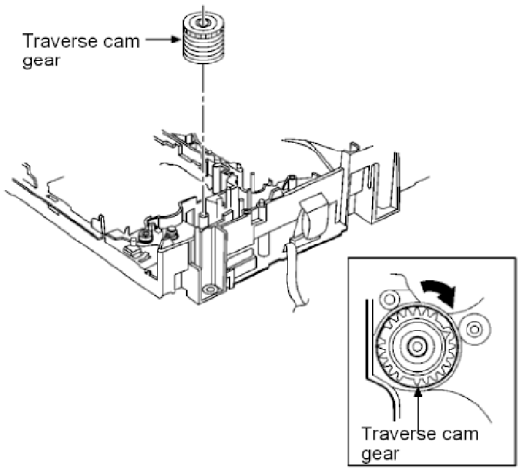
Step 3 Insert the rotation stopper (semi) and ensure that the tabs are engaged.



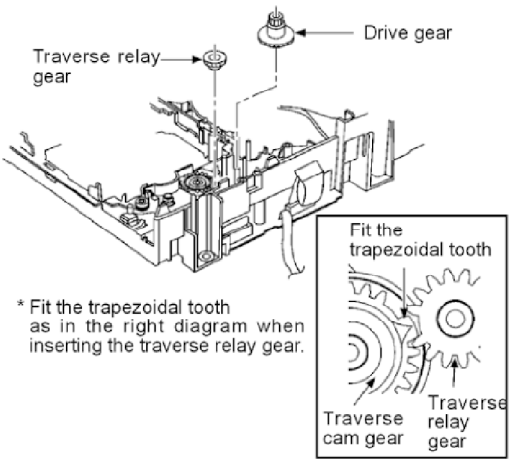
7.9.4. Assembly of Mechanised Drive Part

Step 1 Install the traverse cam gear.

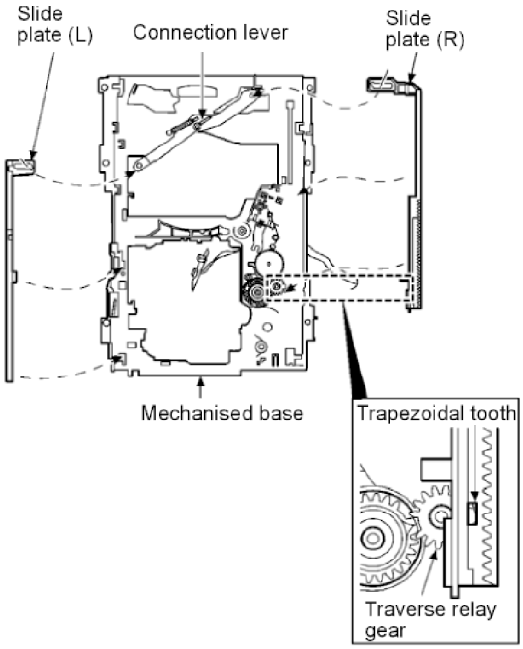
Step 2 Rotate the traverse cam gear fully in the clockwise direction.



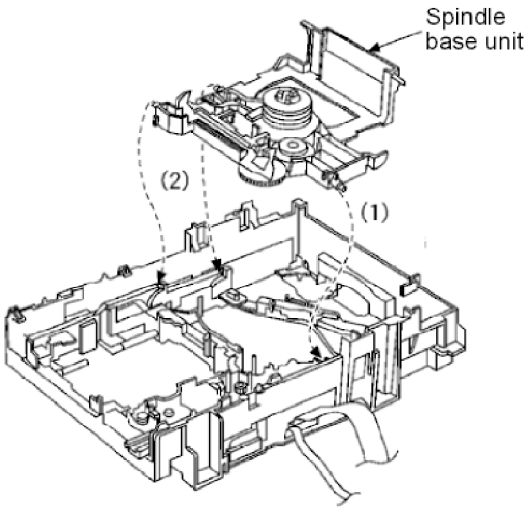
Step 3 Install the drive gear and traverse relay gear.


Drive gear
Traverse relay gear
* Fit the trapezoidal tooth as in the right diagram when inserting the traverse relay gear.
Fit the trapezoidal tooth
Traverse cam gear
Traverse relay gear

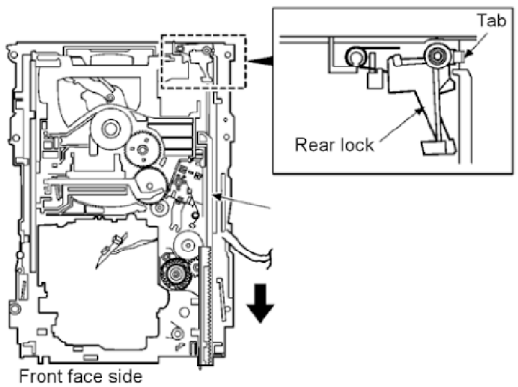
Step 4 Unstall the slide plate (L) on the mechanised base and fit it to the connection lever.
Step 5 Install the slide plate (R) on the mechanised base. Fit it to the connection lever first before fitting the location with the trapezoidal tooth of the traverse relay gear.



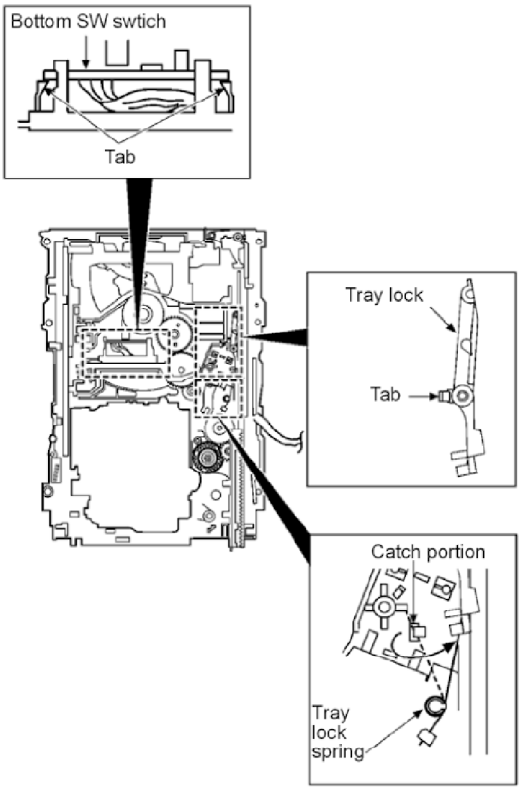
Step 6 Install the spindle base unit.(Install it first from the slide plate (R) side.



Step 7 Move the slide plate (R) fully to the front face side.

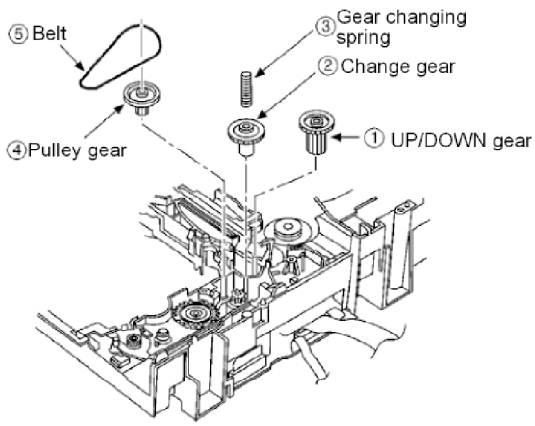


Step 8 Install the rear lock. (Ensure that tabs are engaged)
Step 9 Install the bottom SW board. (Ensure that the tabs are engaged).

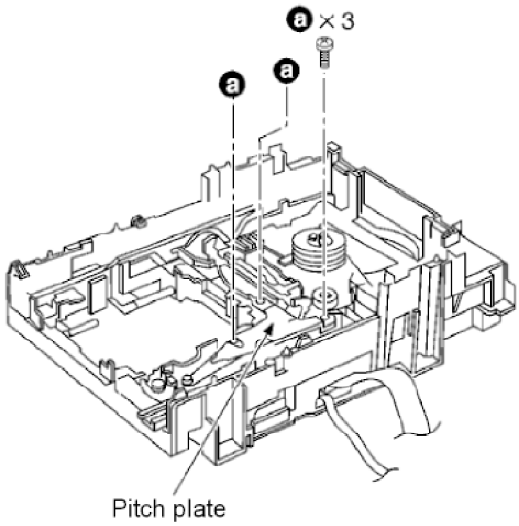


Step 11 Detach tray lock spring from catch portion and hook it to the tray lock.

Step 12 Install the UP/DOWN gear, change gear, gear changing spring, pulley gear and belt in the sequence of (1) ~ (5).



Step 13 Install the pitch plate and fix the screw (a).



Step 13 Install the disc tray, DVD traverse unit, mechanism cover, etc.
[Confirm operation after completion)
Rotate with the hexagon driver (gear) and confirm the operation of the following item.

1. Opening the disc tray.

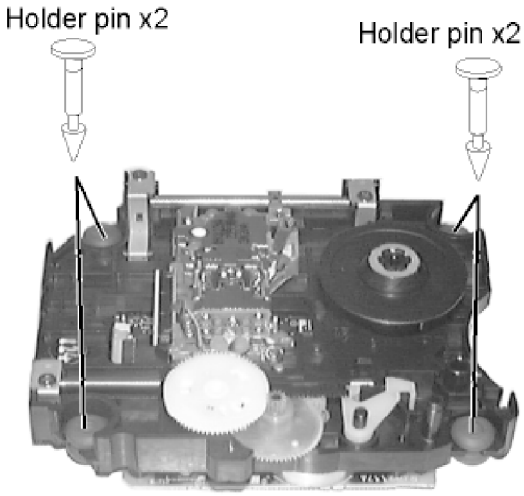
2. Movement of trat towards stock side.

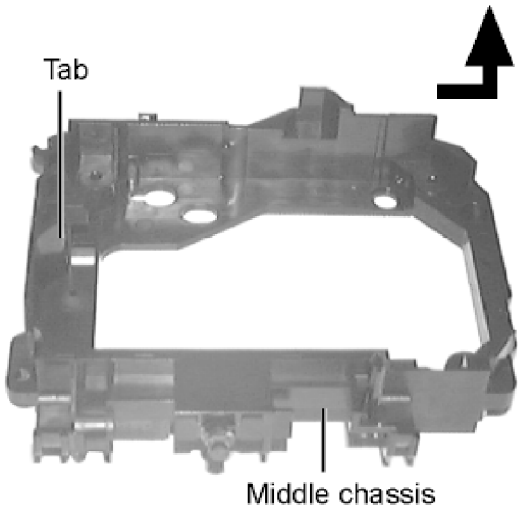
3. Up-Down movement of spindle base unit.

4. Up-Down movement of traverse unit.

7.10. Disassembling the Middle Chassis

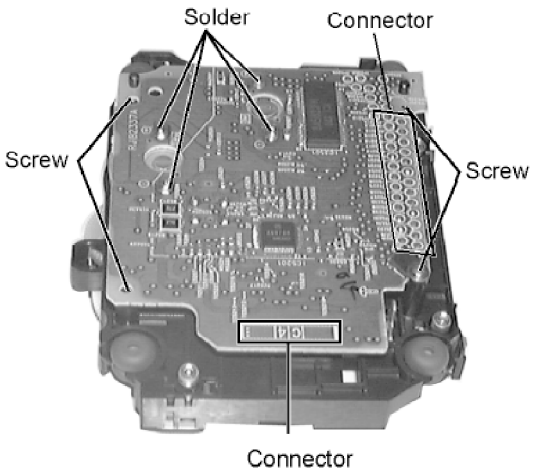
Step 1 Remove the holder pins.
Step 2 Remove the tab.
Step 3 It lifts while pulling it in the direction of the arrow.





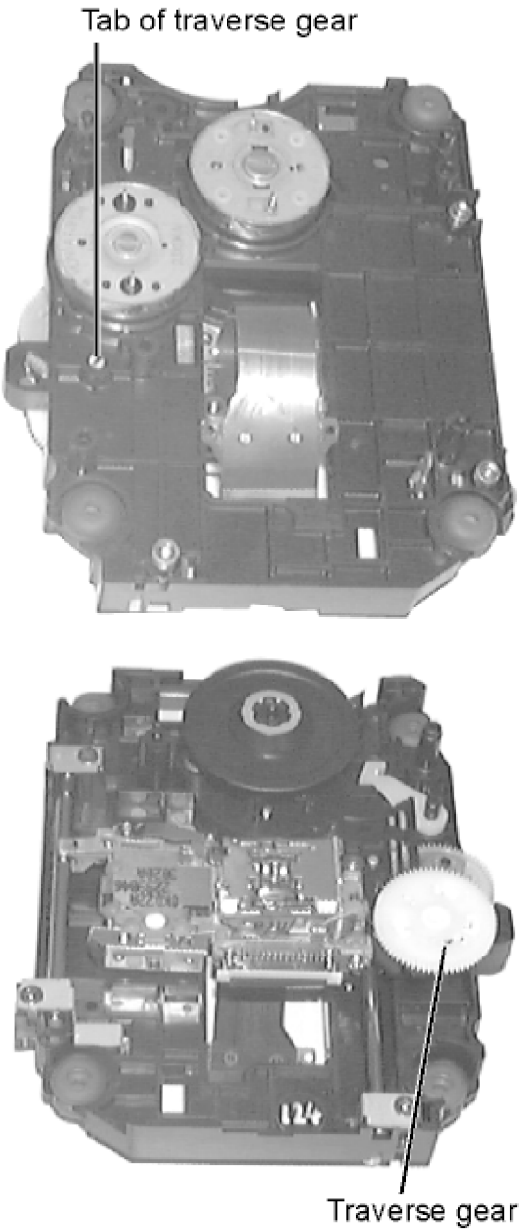
7.11. Terminal P.C.B.

Step 1 Unscrew the screw.
Step 2 Remove the solders.
Step 3 Remove the connector.



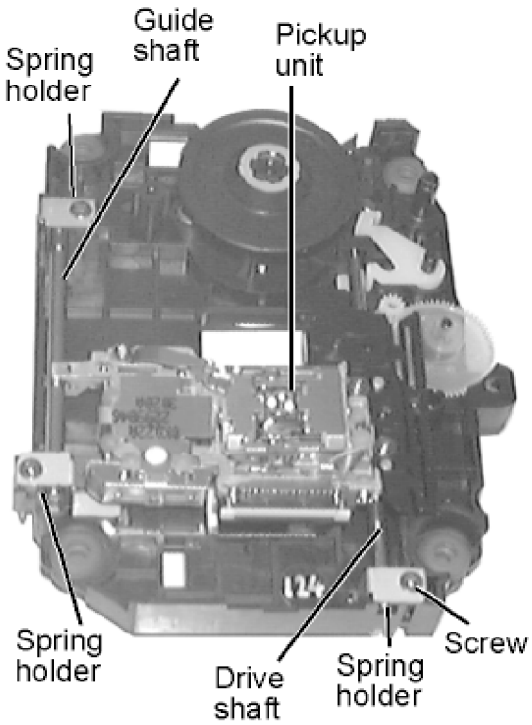
7.12. Traverse Gear

Step 1 Disengage the tabs from the traverse gear.
Step 2 Remove the traverse gear.



7.13. Optical Pickup Unit

Step 1 Unscrew the screws.
Step 2 Remove the spring holders and the springs.
Step 3 Pull out the drive shaft and guide shaft.



7.13.1. Precautions in optical pickup replacement

The optical pickup can be damaged by static electricity from your body. Be sure to take static electricity countermeasures when working around the optical pickup. (Refer to the related page in this Manual about the countermeasures.)

1. Do not touch laser diode, actuator and their peripheries.

2. Do not use tester to check laser diode. (Laser diode can be damaged easily.)

3. The use of soldering iron with anti-static feature is recommended when providing short-circuit to laser diode or when removing it.

4. Solder the land on flexible cable of optical pickup unit.

Caution

- When using the soldering iron without anti-static feature, short circuit the flexible cable terminal with a clip before short-circuiting the land.

- After intended repair is finished, remove the solder for short-circuit of laser diode in a correct way following the procedure described in this Manual.

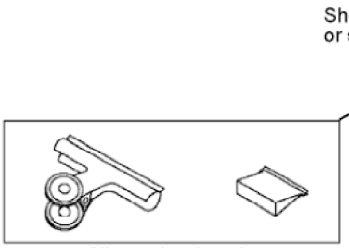


Fig. 1

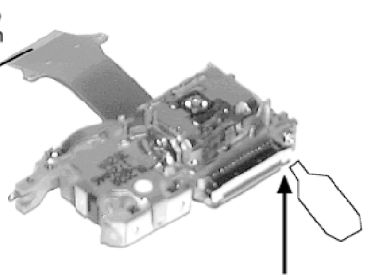
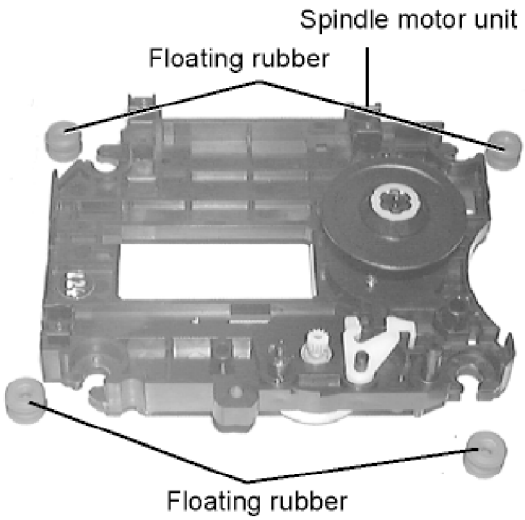


Fig. 2

7.14. Disassembling the Spindle Motor Unit

Step 1 Remove the floating rubbers.



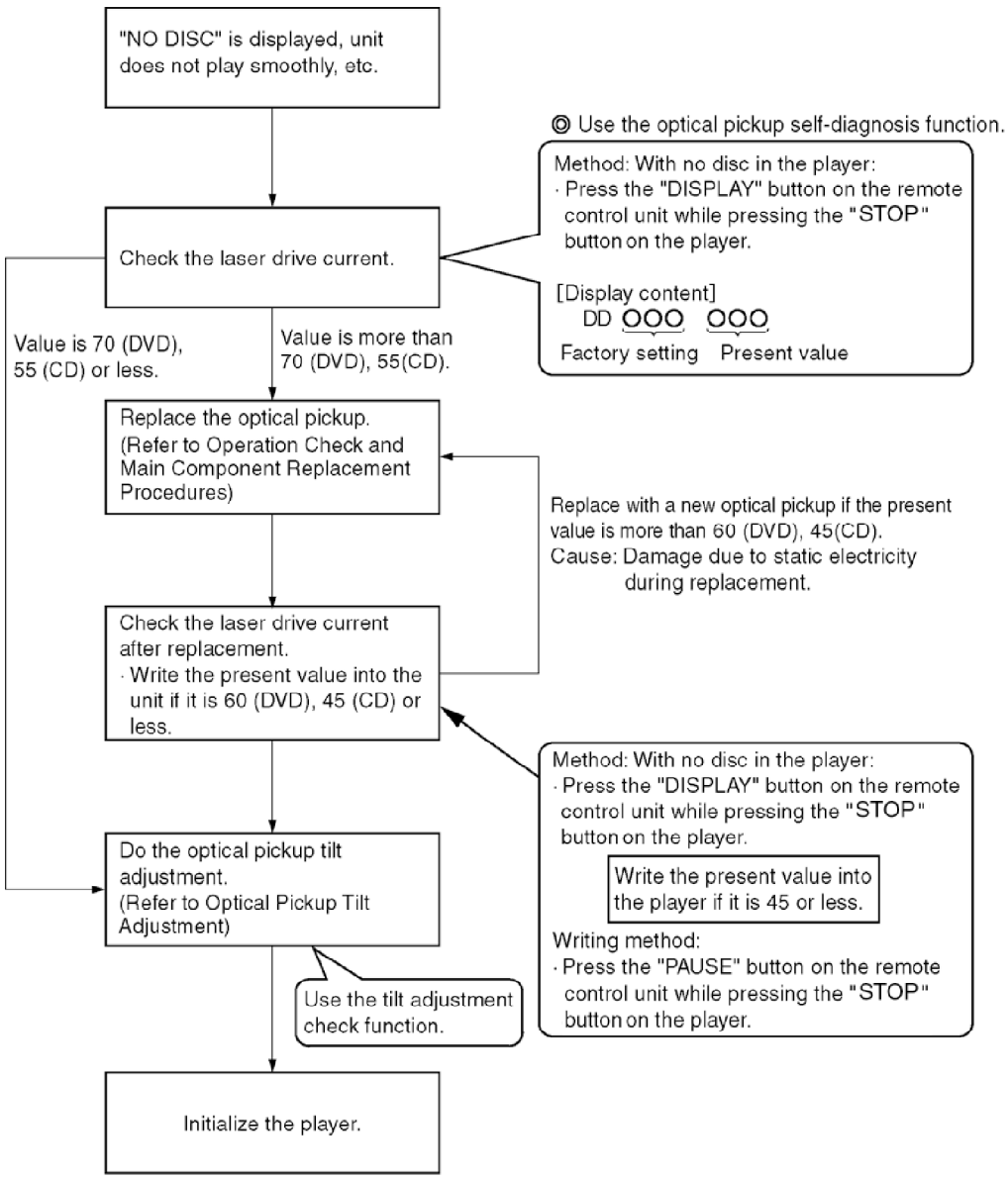
8. Optical Pickup Self-Diagnosis and Replacement Procedure

8.1. Self-diagnosis

The optical pickup self-diagnosis function and tilt adjustment check function have been included in this unit. When repairing, use the following procedure for effective Self-diagnosis and tilt adjustment. Be sure to use the self-diagnosis function before replacing the optical pickup when "NO DISC" is displayed. As a guideline, you should replace the optical pickup when the value of the laser drive current is more than 55.

Note:

Press the power button to turn on the power, and check the value within three minutes before the unit warms up. (Otherwise, the result will be incorrect.)


"NO DISC" is displayed, unit does not play smoothly, etc.
◎ Use the optical pickup self-diagnosis function.
Method: With no disc in the player:
· Press the "DISPLAY" button on the remote control unit while pressing the "STOP" button on the player.
[Display content]
DD OOO OOO
Factory setting Present value
Check the laser drive current.
Value is 70 (DVD), 55 (CD) or less.
Value is more than 70 (DVD), 55(CD).
Replace the optical pickup. (Refer to Operation Check and Main Component Replacement Procedures)
Replace with a new optical pickup if the present value is more than 60 (DVD), 45(CD).
Cause: Damage due to static electricity during replacement.
Check the laser drive current after replacement.
· Write the present value into the unit if it is 60 (DVD), 45 (CD) or less.
Method: With no disc in the player:
· Press the "DISPLAY" button on the remote control unit while pressing the "STOP" button on the player.
Write the present value into the player if it is 45 or less.
Writing method:
· Press the "PAUSE" button on the remote control unit while pressing the "STOP" button on the player.
Do the optical pickup tilt adjustment. (Refer to Optical Pickup Tilt Adjustment)
Use the tilt adjustment check function.
Initialize the player.

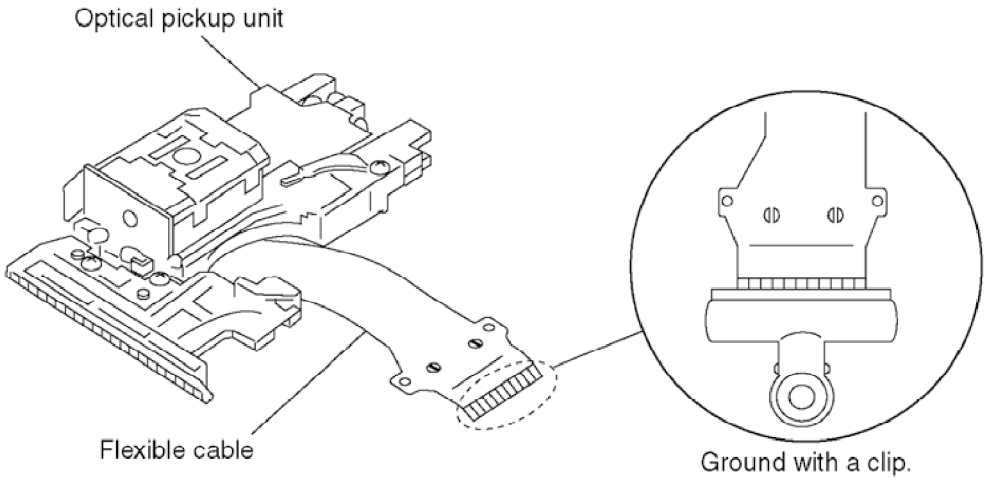
8.2. Cautions to Be Used Before Replacing the Optical Pickup Unit and Spindle Motor Assembly

Before replacing the optical pickup unit and spindle motor assembly, check the total using hours for each of them. The checking method is as follow:

	Operating state & Key operation	Display
Using hours of CD laser	**Press “STOP” and “^” on the remote control in this order while the unit is stopped.**	**xxxx_yyyy yyyy:Total hours are displayed by 4-digit figures (unit: 10 hours).**
Using hours of DVD laser	**Press “STOP” and “^” on the remote control in this order while the unit is stopped.**	**xxxx_yyyy xxxx:Total hours are displayed by 4-digit figures (unit: 10 hours).**
Using hours of SP motor	**Press “STOP” and “>” on the remote control in this order while the unit is stopped.**	**T2_xxxx xxxx:Total hours are displayed by 4-digit figures (unit: 10 hours).**
Resetting using hours of CD and DVD lasers (Simultaneous resetting)	**Press “STOP” “v” on the remote control in this order while the unit is stopped.**	**0000_0000**
Resetting using hours of the motor	**Press “STOP” and “<” on the remote control in this order while the unit is stopped.**	**T2_0000**

Cautions to be taken when replacing the optical pickup
The optical pickup may break down due to the static electricity of human body. Take proper protection measures against static electricity before repairing the parts around the optical pickup. (See the page describing the PREVENTING OF STATIC ELECTRICITYDISCHARGE.)

1. **Do not touch the areas around the laser diode and actuator.**
2. **Do not judge the laser diode with a tester. (The tester will be damaged easily.)**
3. **It is recommended to use a destaticized soldering iron for short-circuiting or removing the laser diode. (Recommended soldering iron) HAKKO ESD Product**
4. **Solder the land of the flexible cable in the optical pickup.**
   Note:
   - When using a soldering iron which is not destaticized, short-circuit the terminal face of the flexible case with a clip. After that, short-circuit the land.
   - After the repairing work is completed, remove the solder according to the correct procedure shown in this Technical Guide.



9. Self-Diagnostic Function

9.1. Outline

- Self-Diagnosis of error conditions on user equipment according to conditions set by the head office.

- Occurance of an error condition and results of operations that occured after entering self-diagnostic mode are displayed via the front (FL) display panel.

9.1.1. Outline of Functions

Selector	Complex Operation	Front Panel Display (Mode-in)	Next Operation	Test Content
DVD/CD	Main unit [STOP] Main unit [>>]	Y_ _ _ _ _ _ _ _ _ _ _ _ _	[OPEN/CLOSE]	Changer mechanism oper -Diagnostic code acquisiti
			[STOP] Single press	Display self-diagnostic co
			[STOP] Long press	Clear recorded content of conditions
			Remote Control [5]	Changer mechanism conti operation test
DVD/CD	Main unit [STOP] Remote Control [0]		None	Display DVD module self- (Display error code)
	Main unit [STOP] Other Remote Control button			Remote control [5] [6] [7] [→ [0]. [>=10] → [ENTER] [PAUS [DISPLAY] etc. Special commands for DV

Selector	Complex Operation	Front Panel Display (Mode-in)	Next Operation	Test Content
Tuner	Main unit [STOP] Main unit [>>]	Button check display	All buttons	Button check, blink all fro panel lights
DVD/CD	Main unit [STOP] Main unit [>>]	T_ _ _ _ _ _ _ _ _ _ _ _ _ _	[PAUSE]	Display analog device (AD value [FF FF FF] Front display panel (from [AN14] [AN15] [AN11]

Cautions:

Self-diagnostics displayed via the [STOP] key display all recorded self-diagnostic codes.

9.2. Self-Diagnostic Mode Settings and Display

1. Power-source related

*** Example display**

*** Self-Diagnostic Codes**

No.	Error Display	Error Item	Detection Method
1	F61	Power Amp output error or power supply circuit error	When DCDET is L during norr operation do not POWER OFF normally, immediately set PCI and display F61 error.Do not s demonstrations while error F6 being displayed.Record conte error occurance and display c in error detection mode.

2. CD/DVD Changer Mechanism (CR20)

Step	Operating Procedure	Micro-controller operation, processing
1	Switch the SELECTOR to CD/DVD, close tray without disk	
2	Press the [FF] button while holding down the [STOP] button for two seconds or more. Self-diagnostic mode is entered when the [STOP] button is released.	Self-diagnostic mode will not be entered if a disk in the tray.
3	[T] is displayed by the front display (FL) panel when entering self-diagnostic mode.	
4	Press the [OPEN/CLOSE] button.	Operations below will be continued. While operations are in progress buttons relating micro-controller will be ignored. 1. Change disc 1 and open the tray. 2. Close the tray 1 second after opening. 3. Initialize the mechanism. 4. Insert disc 5 in the play position and quit.
5	Confirm recorded error content by pressing the [STOP] button while stopped in the self-diagnostic mode and displaying the results of the error check.	Each time the [STOP] button is pressed er codes are displayed in sequence on the fr display panel Example of a DVD module cc display: [_DVD_H05_ _]Example of a norm diagnostic code display: [T_ _ _H02_ _]
6	Clear recorded error content by pressing the [STOP] button for 5 seconds or more while stopped in the self-diagnostic mode.	Recorded error content is cleared and the is shown on the front display panel:[CLEA displayed for one second followed by a ret [T_ _ _ _ _ _ _]
7	Cancel self-diagnostic mode by pressing the [POWER] button.	Power is turned off. At the next power on r operation will resume.

*** If an error occurs while checking the RAM during a micro-controller reset all recorded error detection content will be cleared while initializing the RAM.**

*** By skipping step 4 of the above procedure and moving directly to step 6 it is possible to just display the self-diagnostic codes.**

*** Example display**

*** Self-Diagnostic Codes**

No.	Error Display	Error Item	Detection Method
1	H15	OPEN SW error	If there is a failsafe for a SW error that occ during normal operation it will be recorded displayed in self-diagnostic mode.
2	H16	CLOSE SW error	SW errors will be detected even in error detection mode.
3	H16	UP SW error	
4	H17	DOWN SW error	
5	H27	POSITION SW error	
7	F28	DISC mount error	
8	F29	DISC unmount error	

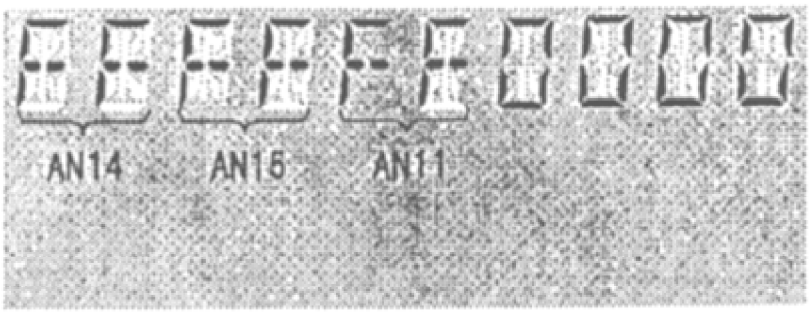
*** While stopped in conditions 3 or higher above it is possible to start a CR20 continuous test. Described in detail seperately.**

3. Analog Device (AD) input value display

*** Pressing the [PAUSE] button on the main unit after having entered self-diagnostic mode through SELECTOR [DVD/CD] will show the analog device conversion input value on the front display panel.**

*** Each time the button is pressed the value will be read again and the display refreshed.**

*** Front display Panel:**



Note:

Empty entries will displays as “00”.

AD Input	Usage
AN 14	Key 1 input : Key input 1
AN 15	Key 2 input : Key input 2
AN 11	MIC_VR input: MIC VR input

- Exit the Analog Device input value display mode by cutting off the AC power source and next time could start the device.

4. DVD/CD module

Step	Operating Procedure	Micro-controller operation, processing
1	Set the SELECTOR to CD/DVD	
2	While pressing the [STOP] button on the main unit press [0] button on the remote control	See the “DVD/CD/ Changer Control” sectic “Error Display” for a detailed explanation.

*** Since error detection for the DVD/CD module occurs in the system component and is sent through the mechanism component codes are received and displayed at the operating console.**

*** Since self-diagnostic codes for the DVD/CD module duplicate prior audio codes the self-diagnostic codes are displayed prefixed by “DVD”.**

*** Self-Diagnostic Codes**

No.	Error Display	Error Explanation	Cause (IC number, etc
1	F010	Specified value is larger than the specified parental value.	Disk → IC7001
2	F020	No TT_SRPT (RLBN is 0)	Disk → IC7001
3	F021	TT_SRP number is 0	Disk → IC7001
4	F022	Specified value is larger than the TT_SRP number	Disk → IC7001
5	F023	No matching SRP for VTSN or VTS_TTN	Disk → IC7001
6	F024	Specified value is larger than TT_SRP.PTT_Ns	Disk → IC7001
7	F030	TTU_SRP number is 0	Disk → IC7001
8	F031	Specified value is larger than TTU_SRP number	Disk → IC7001
9	F040	SRP1 number is 0	Disk → IC7001
10	F041	PGCI_SRP number is 0	Disk → IC7001
11	F042	Specified value is larger than the PGCI_SRP number	Disk → IC7001
12	F043	No matching PGCI_SRP for this Menu ID	Disk → IC7001
13	F050	TMAP_SRP number is 0	Disk → IC7001

No.	Error Display	Error Explanation	Cause (IC number, etc
14	F051	Specified value is larger than the TMAP_SRP number	Disk → IC7001
15	F052	Specified TMAP_SA is 0	Disk → IC7001
16	F053	MAP_EN number is 0	Disk → IC7001
17	F060	C_POSIT exists, but there is no PGMAP in the PGC	Disk → IC7001
18	F061	C_POSIT exists, but the PG number in the PGC is 0	Disk → IC7001
19	F062	Specified value is larger than the PG number in the PGC	Disk → IC7001
20	F063	C_POSIT exists, but there is no C_PBIT in the PGC	Disk → IC7001
21	F064	C_POSIT exists, but the PG number in the PGC is 0	Disk → IC7001
22	F065	Specified Cell number is 0	Disk → IC7001
23	F066	Specified value is larger than the Cell number in the PGC	Disk → IC7001
24	F067	Must be a block array	Disk → IC7001
25	F070	Is not NV_PCK data	Disk → IC7001
26	FOB0	No Cell number for current search	Disk → IC7001
27	F0E0	No user guide PGC control file for DFD, cannot resolve	
28	F0E1	DFD main micro-controller type not compatible, cannot download	
29	F0E2	DFD download start; PGC playback error	
30	F0E3	Waiting for DFD download completion; PGC playback error	
31	F0E4	AVDEC during DFD download	
32	F0E5	Firmware file read error during DFD download	
33	F0E6	Interpolation check error in read-in DFD firmware	
34	F0F0	No firmware file for DFD; download unnecessary	
35	F0F1	No firmware matching the DFD download parameters; download unnecessary	
36	F103	Illegal Highlight Position	Disk → IC7001
37	F4FF	No ACK when requesting forced initialization of panel component	Panel Component → IC6001
38	F500	DSC Error	IC2001
39	F501	DSC Not Ready Error	IC2001
40	F502	DSC Time Out Error	IC2001

No.	Error Display	Error Explanation	Cause (IC number, etc
41	F503	DSC Communication Failure	IC2001
42	F504	Error adjusting DSC data slice offset	IC2001
43	F505	DSC Attention Error	IC2001
44	F506	Can't determine media type (invalid media type)	IC2001
45	F600	Can't access administrative data due to demodulation error	IC7001
46	F601	Undefined sector ID requested	IC7001
47	F602	Can't access LEAD_IN data due to demodulation error	IC7001
48	F603	Can't access KEY_DET due to demodulation error	IC7001
49	F610	Can't control ODC	IC7001
50	F611	No CRCOK within the set time period (CD related)	IC7001
51	F612	No CRCOK within the set time period (DVD related)	IC7001
52	F620	Laser safeguard: high temperature condition	
53	F621	Laser safeguard: circuit failure condition	
54	F700	MBX Overflow	System component bug → IC
55	F701	Message Command Not Complete Error	System component bug → IC
56	F702	Message Command Changed	System component bug → IC
57	F880	Task number not relevant	System component bug → IC
58	F890	Attempted to send message while sending to an AV task (mailbox overflow, etc.)	System component bug → IC
59	F891	Couldn't send message to AV task (mailbox overflow, etc.)	System component bug → IC
60	F8A0	Message command is not relevant	System component bug → IC
61	F893	Flash ROM is interpolated	IC6302
62	F894	EEPROM is not normal	IC6303
63	F895	Error in language destination (over D6)	
64	F896	Setting are for a non-existant model (over D6)	
65	F897	Initialization after writing not completing (over D6)	

No.	Error Display	Error Explanation	Cause (IC number,(
1	U11	Focus servo error	
2	H01	Tray loading error	
3	H02	Spindle server error	
		DSC disk motor error	
		6626 CLVS FAILURE	
4	H03	Traverse motor error	
5	H04	Tracking server error	
6	H05	SEEK timeout error	

9.3. Additional Functions

9.3.1. Tray Lock Function

- There are two tray lock functions
- Power on through the SELECTOR /DVD/CD. While holding down the [CD STOP] button on the main unit press the [POWER] button on the main unit or the remote control. Lock Mode A will be entered, [_ _ _ _LOCKED_ _] will be displayed for 3 seconds, and the current disc will begin playing.
- Lock Mode A will disable the button below while turning the power on or off.
  [OPEN/CLOSE]
- When locked in Lock Mode A pressing the [POWER] button on the main unit or the remote control while holding down the [CD STOP] button on the main unit will display [_ _UNLOCKED_ _] and unlock the unit.
- Power on through the SELECTOR DVD/CD. While holding down the [CD PLAY] button on the main unit press the [POWER] button on the main unit or the remote control. Lock Mode B will be entered, [_ _ _LOCKED_ _] will be displayed for 3 seconds, and the current disc will begin playing.
- In Lock Mode B the button below, mainly selector and disc operation related items, will be disabled.
  Main Unit: [OPEN/CLOSE] [PAUSE] [STOP] [I<</V] [SELECTOR] [DISK SKIP]
  Remote Control: [AUX] [DVD/CD] [TV] [VCR] [TUNER/BAND] [0] ~ [9] [>=10] [DISK]
  [I<<] [I>>] [PAUSE] [STOP] [<<] [>>] [REPEAT] [POSITION]
  [A-B REPEAT] [MARKER] [DISPLAY] [MIX2ch] [TEST] [TIMER] [FL

DISPLAY] [CH SELECT]
[KARAOKE ON/OFF] [KARAOKE DISPLAY] [VOICE] [MUTE]
[ECHO] [b] [#] [CENTER FOCUS] {SEAT POSITION] [RETURN]
[DISK SKIP]
[CINEMA] [GROUP] [PAGE]
While playing it is not necessary to re-disable buttons disabled under Lock Mode B.
Also, button related to sound quality are not disabled. The buttons below are not disabled.
Main Unit: [POWER]
Remote Control: [POWER] [DISK MANAGER] [PALY MODE] [CANCEL] [SFC] [SUBWOOFER LEVEL]
[VOL-] [VOL+] [SUPER SURROUND] [DOLBY PROLOGIC] [SUB TITLE] [AUDIO] [ANGLE]
[TOP MENU] [MENU] [ENTER] [<] [>] [^] [V] [MUTING] [PLAY]

- **When locked in Lock Mode B pressing the [POWER] button on the main unit or the remote control while holding down the [CD PLAY] button on the main unit will unlock the unit after displaying [_ _UNLOCKED_ _] for 3 seconds.**
- **Tray lock is canceled when AC power is cut.**
- **Tray lock A and B functions are exclusive operations. The first one enabled will have priority.**
- **In Lock Mode A any selector button is allowed to start auto power on.**
  In Lock Mode B all selector buttons are disable from starting auto power on.
- **When a disabled button is pressed while in lock mode [_ _ _LOCKED_ _] will be displayed for 3 seconds on the front display panel.**
- **Lock mode will be cancelled when a loading error occurs with the CR20.**
  (If the [OPEN/CLOSE] button were disabled when the tray is opened by a TAKE OUT DISC error recovery would be impossible)

9.3.2. Special Commands for the DVD Module

- **When the SELECTOR is set to DVD/CD the commands for the operations below will be sent to the mechanism component micro-**

controller.

- The mechanism component micro-controller relays these commands without alteration to the DVD module.

- THe DVD module sends data resulting from commands to the mechanism component, where they are then relayed to the operating console.

- Data received from the DVD module by the operating console is displayed by the right 10 digits.

- Command Table

Special Operation	Command	Operation/Display	Release/Rema
Jitter Display (servo test mode)	B5	Main Unit [STOP] + Remote Control [5] xxx: jitter measurement (DEC) [xxx_yyy_zz] yyy:read error counter (DEC) zz: focus drive measurement (HEX) Test string from DVD MODULE : [J_xxx_yyy_zz]	Send STOP comman operating console
Region Display (location display)	B6	Main Unit [STOP] + Remote Control [6] w: region number [_ _w_xy_zzz] x: N noPAL P PAL y: N NTSC 6 PAL60 zzz: panel component jumper data Text string from DVD MODULE: [_ _w_xy_zzz]	5 seconds after activa text string from the D MODULE dissappears display is automatica turned off.
Version Display	B7	Main Unit [STOP] = Remote Control [7] s: panel component mode type [srrrxxyzzz] rrr: panel component release number [_ _ _xxyzzz] x: generation of system component (45) y: system component model type zzz: system component release number Text string from DVD MODULE: [srrr_ _xxyzzz] srrr will be blank with mini-components	5 seconds after activa text string from the D MODULE dissappears display is automatica turned off.
Error Code Display	BA + request record number	Main Unit [STOP] + Remote Control [0] [__DVD_Fxxx] xxx: error number [__DVD_Uxxx] [__DVD_Hxxx]	5 seconds after activa text string from the D MODULE dissappears display is automatica turned off.

Special Operation	Command	Operation/Display	Release/Rema
Laser Current Initial measurement (saved laser power value)	C2	Main Unit [STOP] + Remote Control [PAUSE] [DO_034_028] 034: DVD current measurement (mA) (DEC) 028: CD current measurement (mA) (DEC) Text string from DVD MODULE: [LDO_034_028]	
DVD Laser Current Measurement	C3	Main Unit [STOP] + Remote Control [DISPLAY] 034: saved in EEPROM [DD_034_032] initial current mearement (mA) (DEC) 032: present current measurement (mA) (DEC) Text string from DVD MODULE: [LDD_034_032]	Laser lighting remain POWER OFF of the tr
ADSC Internal RAM Display A	C4	Main Unit [STOP] + Remote Control [1] [A_0FA_6901] 0FA: address (HEX) 6901: RAM value of display address (HEX)	STOP command is se the operating consol DVD MODULE
ADSC Internal RAM Display B	C5	Main Unit [STOP] + Remote Control [2] [A_0FA_6901] 0FA: address (HEX) 6901: RAM value of display address (HEX)	STOP command is se the operating consol DVD MODULE
kink measurement (invalid pick detection)	C6	Main Unit [STOP] + Remote Control [9] [FK_109_101] 109: maximum value of calculated value (DEC) 101 : ratio of maximum value to minimum value [FK_ER_9101] ER: display error occurance 9101: ADSC command error code	STOP command is se the operating consol DVD MODULE
User Initialization (For users)	BC+ Model Table + 0 x 00	Main Unit [STOP] + Remote Control [>=10] [INITIALIZED] display on the operating console for 2 seconds. When display clears the user initialization commands is output the system component. Returns user settings to factory values.	When the [INITIALIZE front panel dissappea operation is complete to GUI is INITIALIZE.

Special Operation	Command	Operation/Display	Release/Rema
All Reset (for design service)	BC+ Model Table + 0 x 3C	While [INITIALIZED] is being displayed from the user initialization operation press [STOP] on the main unit and [ENTER] on the remote control. [_DVD_RESET] is displayed on the operating console and the all reset command is output instead of the user initialization command. Returns user settings to factory values. Panel component jumpers are referenced, and the appropriate model number's initialization values are written to the EEPROM and global region. Laser times and spindle times are not initialized.	If NO DISC or ---READ confirmed after DVD displayed on the fron panel the operation is completed. No GUI. All items tem dissappear.
All set (for industrial production)	F1	Receipt of remote control code [B0 00 F1]. Also, Main Unit [STOP] + Remote Control [1DDF] [_ALL_SET] (display text string from system component). Returns user settings to factory values. Panel component jumpers are referenced, and the appropriate model number's initialization values are written to the EEPROM and the global region. Laser times and spinlde times are also initialized.	If NO DISC or ---READ confirmed after ALL S displayed on the fron panel the operation is completed. ALL SET is displayed front displaye panel t operation is complete GUI is ALL SET.
Device Name Display	B1+ 0 x 13	Main Unit [STOP] + Remote Control [4] [FEP_??????] [SRV_??????] [ODC_??????] [Av_??????] [SYS_??????]	Display cycles every seconds. Display automatically turns o the last device name displayed.
Laser Time Use	B1+ 0 x 14	Main Unit [STOP] + Remote Control [^] 1234 : DVD laser use time [_1234_5678] 5678: CD laser use time 10 hour units displayed in 4 digits Text string from DVD MODULE: [T1_1234_5678]	5 seconds after activa text string from the D MODULE dissappear display is automatica turned off.
Reset Laser Time Use	B2 + 0 x 14	While use time is being displayed press Main Unit [STOP] + Remote Control [V] [_0000_0000] DVD and CD are both reset at the same time.	5 seconds after activa text string from the D MODULE dissappear display is automatica turned off.

Special Operation	Command	Operation/Display	Release/Rema
Spindle Use Time	B1 + 0 x 15	Main Unit [STOP] + Remote Control [>] [___T2_1234] 1234: 10 hour units displayed in 4 digits Text string from DVD MODULE: [T2_1234_____]	5 seconds after activa text string from the D MODULE dissappear display is automatica turned off.
Reset Spindle Use Time	B2 + 0 x 15	While use time is being displayed press Main Unit [STOP] + Remote Control [<] [___T2_0000]	5 seconds after activa text string from the D MODULE dissappear display is automatica turned off.
CD Laser Current Measurement	B1 + 0 x 92	Main Unit [STOP] + Remote Control [3] 028: initial current value [DC_028_026] stored in EEPROM (mA) 026: Present current value (mA) Text string from DVD MODULE: [LDG_028_026]	Laser lighting continu POWER OFF or the tr
Region and Firmware Version Display	BF + 0 x 92	Main Unit [STOP] + Remote Control [8] r: region number [__r__xyzzz] x: generation of system component y: system component model type zzz: system component model type Text string from DVD MODULE: [____r__xyzzz]	5 seconds after activa text string from the D MODULE dissappear display is automatica turned off.
Transmission Error Display	BF + 0 x 11	Main Unit [STOP] + Remote Control [MENU] [_ERR_02/30]	5 seconds after activa text string from the D MODULE dissappear display is automatica turned off.

9.3.3. Jitter Offset Correction

- The jitter offset correction function below is necessary for D5, but is not necessary for D8.
- While displaying K objects,certain remote control operations correct the offset of the DVD MODULE jitter value.
- When the DVD module firmware rewriting connector is inserted K objects will be displayed [KC 00 0000].
- Key codes of input from the remote control's ten key while displaying K objects are relayed to the system component by the operating console.
- Inputting [2] [0] from the remote control returns a 14 hex value from the system component. The value is converted from hex → dec

and displayed as [KC 20 0000].
- Continuously pressing the [PLAY] button returns the offset result as a text string from the system component, which is displayed as [KC 20 0002].
- The DVD Module has functions that support buttons other than [2] [0] [PLAY], so when K objects are being displayed key codes are as below.
  [0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [>=10] [PLAY]

9.4. Pseudo ROM Correction

9.4.1. Outline

- Since the Mitsubishi M3819 series micro-controller is capable of making programs operate in RAM the pseudo ROM corrections below are possible.
- Program the process calling the modifying sub-routine in advance.
- Program the process to read-out the program from the EEPROM into RAM in advance.
- Processes previous to the read-out cannot be modified.
- In pseudo ROM corrections defective processses cannot be completely bypassed.

9.4.2. EERPOM Flag Indicator Interpretation

- Regardless of the EEPROM flag indicator CS/CLK/DATA is output and the DATA read-in process occurs.
  Accordingly, even if there is no EEPROM hardware processing at the terminal is necessary.
- If the data read-out below is valid then an EEPROM will be determined to be present, and the modifying program will be read-out.
- When the MASK ROM file name (8 character ASCII code, 8 bytes) and the EEPROM file name match.
- When the modifying points flag indicator data (8 points, 1 byte) written at two places on the EEPROM match.

9.4.3. CHECK SUM Display

- In order to confirm that the EEPROM is loaded, the operations below display the CHECK SUMs for the Operating Console, mechanism component, and DSP micro-controller EEPROMs.
- Receiving [1DDF or 1CDF] when in Process Check Mode with

Process Check Mode-in [1DDF or 1 CDF] will display the operating console's version and EEPROM CHECK SUM.

- If [1DDF or 1CDF] are received while the operating console's version and EEPROM CHECK SUM are being displayed the mechanism component's version and EEPROM CHECK SUM are displayed.

- If [1DDF or 1CDF] are received while the mechanism component's version and EEPROM CHECK SUM are being displayed the DSP micro-controller's version and EEPROM CHECK SUM are displayed.

- If a valid remote control code is received while the CHECK SUM is being displayed the CHECK SUM display will be erased to confirm with that operation and display.

- When the result of referencing the EEPROM is a differing file name [NO] will be displayed, just as when no EEPROM is present.

9.4.4. Insertion Points for ROM Correction Processing

- Processing read-outs from EEPROM

- RCaccE2PrSUB: Insert after port or control register setting (AC check).
It is also necessary for the EEPROM's power supply to be in power-off (AC positive).

- Processing Modifying Program Calls

- RCtimerinsSUB: Insert at the end of the timer interrupt.

- RCschedulerSUB: Insert in the OS scheduler.

- RCinitialSUB: Insert after initialization, immediately before jumping to the main process.

- RCstandbySUB: Insert immediately before the power failure process STP command.

- RCimagetskSUB: Insert immediately before branching to individual

image processing.
- RCdisptskSUB: Insert immediately before processing the data settings for the display RAM.
- Rcreserve0SUB: Insert in the transmission process to the CD mechanism component.
- Rcreserve1SUB: Insert in the transmission process to the DSP control micro-controller.
- Data inside the EPROM (Required RAM capacity)
- EEPROM flag indicator determination data: 10 bytes
- Modifying Program's starting address: 16 bytes
- Modifying Program: remaining bytes

10. Adjustment Procedures

10.1. Service Tools and Equipment

Application	Name	Number
Tilt adjustment	DVD test disc	DVDT-S15 or DVDT-S01
	Hex wrench	Available on sale route.
Inspection	Extension cable (module P.C.B. to mother P.C.B.)	JGS0116
	Extension cable (module P.C.B. to mother P.C.B.)	JGS0098
Others	Screw lock	RZZ0L01
	Frease (1)	RFKXGAK152
	Grease (2)	RFKXGP641
	Oil (1)	RFKXGA1280
	DISPLAY	Checking the laser drive current
Confirmation	CD test disc	PVCD-K06 or any other commercially available disc
	VCD test disc	PVCD-K06 or any other commercially available disc
	Recovery disc	RFKZD5TR006

10.2. Important points in adjustment

10.2.1. Important points in optical adjustment

- Before starting optical adjustment, be sure to take anti-static measures.
- Optical pickup tilt adjustment is needed after replacement of the following components.

1. Optical pickup unit

2. Spindle motor unit

3. Optical pickup peripheral parts (such as rail)

Notes
Adjustment is generally unnecessary after replacing other parts of the traverse unit. However, make adjustment if there is a noticeable degradation in picture quality. Optical adjustments cannot be made inside the optical pickup. Adjustment is generally unnecessary after replacing the traverse unit.

10.2.2. Important points in electrical adjustment

- Follow the adjustment procedures described in this Manual.

10.3. Storing and Handling Test Discs

- Surface precision is vital for DVD test discs. Be sure to store and handle them carefully.

1. Do not place discs directly onto the workbench, etc., after use.
2. Handle discs carefully in order to maintain their flatness. Place them into their case after use and store them vertically. Store discs in a cool place where they are not exposed to direct sunlight or air from air conditioners.
3. Accurate adjustment will not be possible if the disc is warped when placed on a surface made of glass, etc. If this happens, use a new test disc to make optical adjustments.
4. If adjustment is done using a warped disc, the adjustment will be incorrect and some discs will not be payable.

10.4. Optical Adjustment

10.4.1. Optical pickup tilt adjustment

Measurement point	Adjustment point	Mode	Disc
	Tangential adjustment screw Tilt adjustment screw	T01 (inner periphery) play T43 (outer periphery) play	DVDR-S15 or DVDT
Measuring equipment		Adjustment value	
None (Main unit display for servicing is used.)		Adjust to the minimum jitter value.	

10.4.1.1. Adjustment Procedure

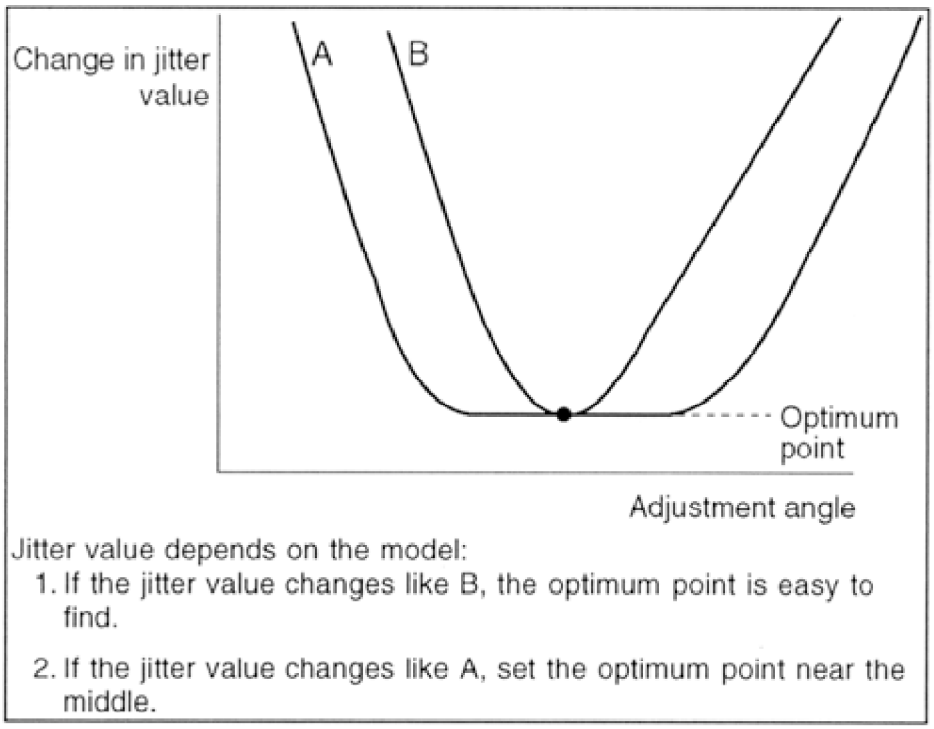
1. While pressing STOP button on the main unit, press “5” on the

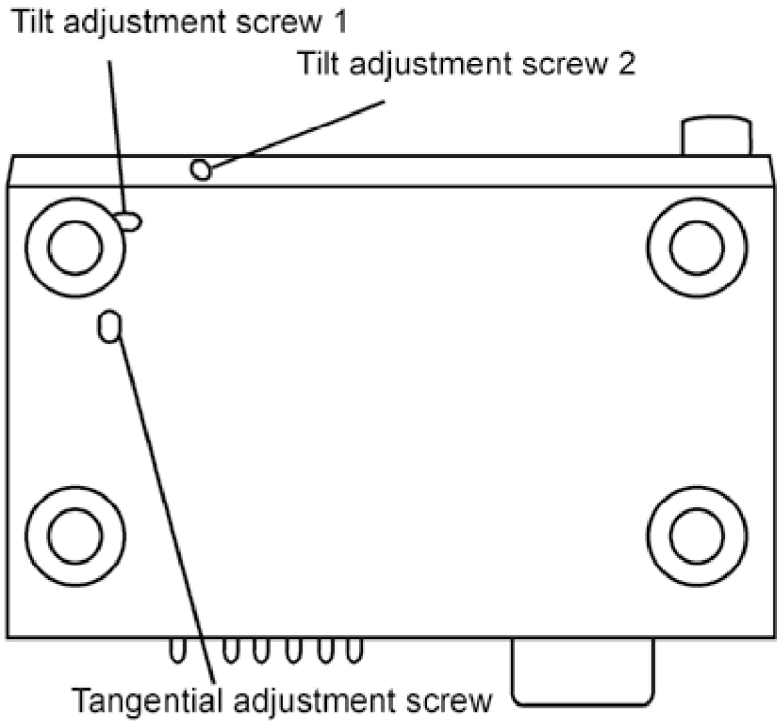
remote control unit.

2. **Confirm that “J_xxx_yyy_zz” is shown on the front display.**
   For your information
   “yyy” and “zz” shown to the right have nothing to do with the jitter value. “yyy” is the error counter, while “zz” is the focus drive value.
   Note:
   Jitter value appears on the front display.
3. **Play test disc T01 (inner periphery).**
4. **Adjust tangential adjustment screw so that the jitter value is minimized.**
5. **Play test disc T43 (Outer periphery).**
6. **Adjust tilt adjustment screw 1 so that the jitter value is minimized.**
7. **Play test disc T43 (outer periphery).**
8. **Adjust tilt adjustment screw 2 so staht the jitter value is minimized.**
9. **Repeat adjusting tilt adjustment screws 1 and 2 alternately until the jitter value is minimized.**

10.4.1.2. Important points

1. **Make tangential adjustment first, and then make tilt adjustment.**
2. **Repeat adjusting two or three times to find the optimum point.**
3. **Finish the procedure with tilt adjustment.**


Change in jitter value
A
B
Optimum point
Adjustment angle
Jitter value depends on the model:
1. If the jitter value changes like B, the optimum point is easy to find.
2. If the jitter value changes like A, set the optimum point near the middle.



10.4.1.3. Check after adjustment

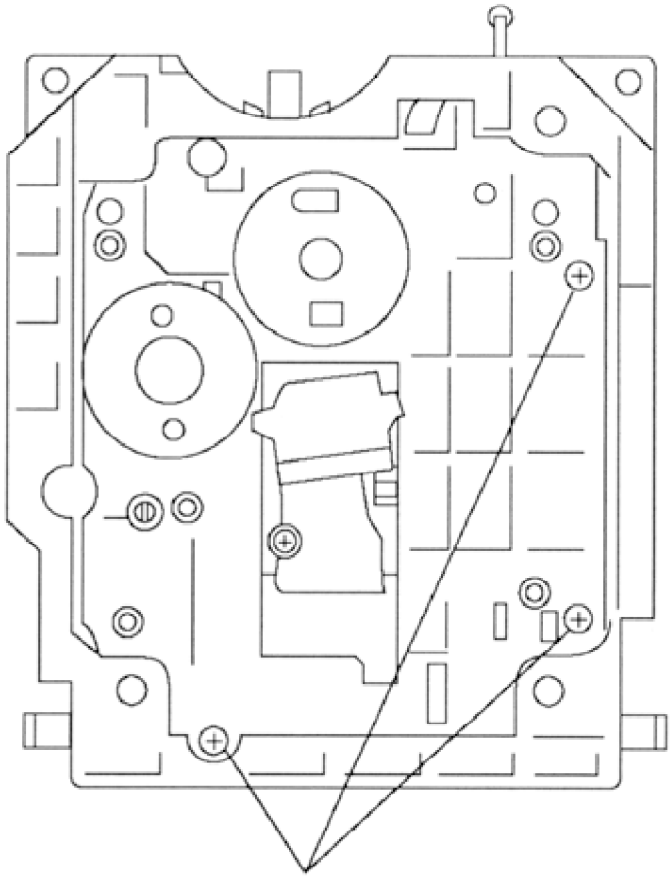
Play test disc or any other disc to make sure there is no picture degradation in the inner, middle and outer peripheries, and no audio skipping. After adjustment is finished, lock each adjustment screw in position using screw lock.

10.4.1.4. Procedure for screw lock

1. After adjustment, remove top cover, tray, clamper base and

traverse unit in this sequence.

2. Lay the traverse unit upside down, and fix adjustment screw with screw lock.
3. After fixing, reassemble traverse unit, clamper base, tray and top cover.



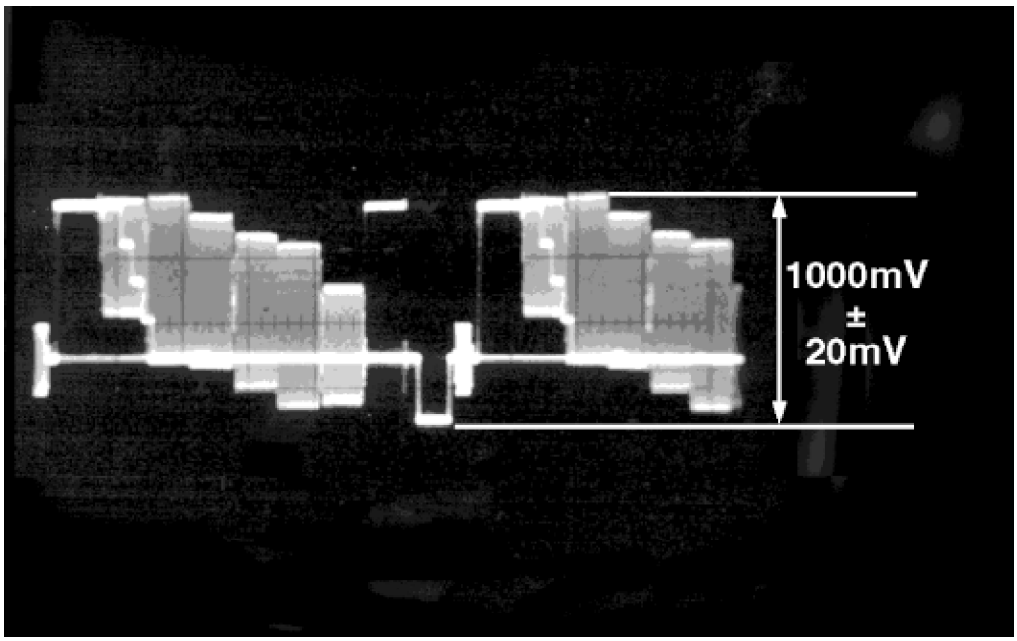
11. Electrical Adjustment

11.1. Video Output (Brightness Signal) adjustment

Carry out this adjustment after board replacement.

Measurement Point	Adjustment Mode	Test Disc
Video output jac	Colour bar 75%Playback (Title 46) : DVDT-S15Playback (Title 12): DVDT-S15	DVDT- S15 or DVDT-S01
Required equirmentScrewdriver, oscilloscope	Adjustment	
	1000mVp-p±20mV	

Purpose: To ensure compatibility of video signal output.
1. Connect the oscilloscope to the video output jacks and set.

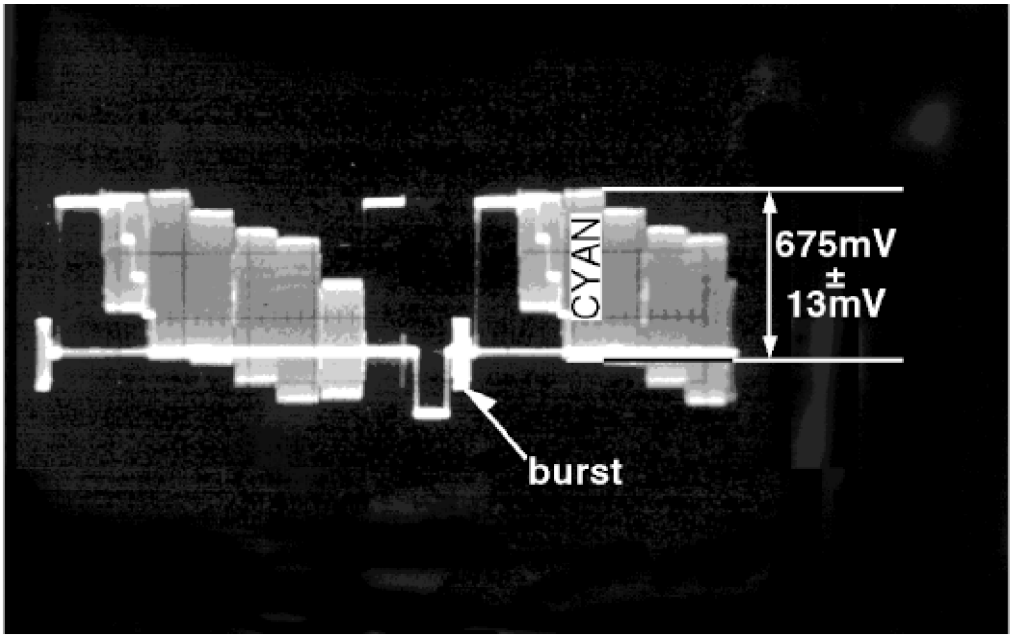


11.2. Video Output (Colour Signal) adjustment

Carry out this adjustment after board replacement.

Measurement Point	Adjustment Mode	Test Disc
Video output jac	Colour bar 75%Playback (Title 46) : DVDT-S15Playback (Title 12): DVDT-S15	DVDT- S15orDVDT-S01
Required equirmentScrewdriver, oscilloscope200mV/ div, 10 μ sec/div	Adjustment	
	675mVp-p±13mV	

Purpose: To ensure compatibility of video signal output.
1. Connect the oscilloscope to the video output jacks and set .



12. Illustration of IC's, Transistors and Diodes

13. Terminal Function of IC's

13.1. IC601 (C2BBGF000311) System Control

Pin No.	Mark	I/O	Function
1	D5_LED	I/O	Disc 5 LED Control. Active H.
2	D4_LED	I/O	Disc 4 LED Control. Active H.
3	D3_LED	I/O	Disc 3 LED Control. Active H.
4	D2_LED	I/O	Disc 2 LED Control. Active H.
5	D1_LED	I/O	Disc 1 LED Control. Active H.
6	Region	I/O	DVD region setting
7	KEY2	I/O	Key 2 input
8	KEY1	I/O	Key 1 input
9	JOG1B	I/O	JOG 1 INPUT B. Main Volume.
10	JOG1A	I/O	JOG 1 INPUT A. Main Volume.
11	MIC_VOL	I/O	MIC VR AD input
12	DSPRST	I/O	DSP reset output.
13	DSPACK	I/O	DSP ACK input.
14	SENSE	I/O	DSP sense input.

Pin No.	Mark	I/O	Function
15	PHONE	I/O	SW input for PHONE SW detection. L: without PHONE/ H:with PHONE
16	MIC SW	I/O	SW input for MIC detection. L: without MIC / H: with MIC
17	VSS	-	GROUND (VPP power input during FLASH)
18	RESET	I	Reset input. Active L.
19	N.C.	L	OPEN or GND with Resistor
20	N.C.	L	OPEN or GND with Resistor
21	VSS	-	GROUND (0V)
22	XIN	I	4.00MHz Main Clock.
23	XOUT	O	4.00MHz Main Clock.
24	VCC	-	Power Supply. (+5V)
25	EDA	I/O	EEPROM data output
26	ECK	I/O	EEPROM clock output
27	PCNT	I/O	PCNT output. Power control output.
28	DCDET	I/O	DCDET input. DC power detection input.
29	RDS CLK	I/O	RDS clock input
30	RDS DATA	I/O	RDS data input
31	RMT	I/O	REMOCON input. Remote control input
32	SYNC	I/O	AC failure DET input. Synchronized input for detection of power failure
33	SER4	I/O	Serial 4 output
34	SER3	I/O	Serial 3 output
35	SER2	I/O	Serial 2 output
36	SER1	I/O	Serial1 output
37	SER 5	I/O	Serial 5 output (ECHO CS)
38	ECS	I/O	EEPROM CS output
39	N.C.	-	OPEN or GND or GND with Resistor
40	N.C.	-	OPEN or GND or GND with Resistor
41	Progressive Led	-	Progressive display led control Active H
42	N.C.	-	OPEN or GND or GND with Resistor

Pin No.	Mark	I/O	Function
43	SD	I/O	Tuner signal DET input
44	DO/ST	I/O	Tuner DO/ST input
45	WAKE LED	I/O	WAKE UP display LED control. Active H
46	N.C.	I/O	OPEN or GND or GND with Resistor
47-54	GRID8-GRID1	I/O	Grid drive output (Digit drive output)
55-80	SEG34-SEG9	I/O	Segment drive output (Anode drive output)
81-88	SEG8(REG8) - SEG1(REG1)	O	Segment drive output (Anode drive output) Control output for regional area, function selection
89	VEE	-	Power (-30V)
90	MECHSI	I/O	Mecha control data input (Communication with DVD mechanical controls
91	MECHSO	I/O	Mecha control data output (Communication with DVD mechanical controls
92	MECHCK	I/O	Mecha control clock intput (Communication with DVD mechanical controls
93	MECHRQ	I/O	Mecha con request output (Communication with DVD mechanical controls
94	MECHCS	I/O	Mecha control CS input (Communication with DVD mechanical controls
95	MECRST	I/O	Mecha on reset output (Communication with DVD mechanical controls
96	REG_IN	I/O	Region input (Input setting for regional area, Function)
97	AVSS	-	Power Jack (0V) AD Converter GROUND
98	VREF	-	Reference For A-D (+5V)
99	N.C.	I/O	OPEN or GND with Resistor

Pin No.	Mark	I/O	Function
100	CRT	I/O	CR timer control. Power failure time detection.

13.2. IC451 (C2BBFD000307) Mecha Control

Pin No.	Mark	I/O	Function
1	VCC	I	Power connection terminal
2	VREF	I	Standard voltage input terminal
3	AVSS	-	Standard voltage input terminal (connected to GND)
4	MUTE	O	Mute control output terminal
5	PWCONT	O	DVD module power control output terminal
6	SYNC	I	Power disruption detection signal input terminal
7	C/SWOUT	-	Not used, Open
8	B_REQ	I	Serial transmission request signal input terminal
9	B_CS	O	Serial transmission chip select signal output terminal
10	B_CLK	O	Serial transmission clock signal output terminal
11	DATA O	O	Serial transmission data signal output terminal
12	DATA I	I	Serial transmission data signal output termianl
13	CLS	O	Tray close signal output terminal
14	OPN	O	Tray open signal output terminal
15	CNVSS	-	Power input terminal (connected toGND through resistor)
16	TEST	I	Test mode signal input terminal
17	ECS	-	Serial signal output terminal to EEPROM (not used, open)

Pin No.	Mark	I/O	Function
18	REST	I	Reset signal input terminal
19	XIN	I	Crystal oscillator circuit input terminal (=8MHz)
20	XOUT	O	Crystal oscillator circuit output terminal (=8MHz)
21	VSS	-	Power input terminal (connected to GND)
22	LED_STB	-	Serial signal output terminal to LED driver (not used, open)
23	LED/ E_CLK	-	Serial signal output terminal to EEPROM driver (not used, open)
24	LED/ E_DTA	I/O	Serial signal input/output terminal to LED driver (connected to GND through resistor)
25	LED_CLR	_	Latch clear signal output terminal to LED driver (not used, open)
26	PLG	O	Plunger control signal output terminal
27	SW5	I	Bottom switch detection signal input terminal
28	PSTN	I	Position sensor detection signal input terminal
29	SW2	I	Tray position 2 detection switch input terminal
30	SW1	I	Tray position 1 detection switch input terminal
31	SW3	I	Tray open detection switch input terminal
32	CCW	O	Motor drive control signal output terminal (normal rotation)
33	CW	O	Motor drive control signal output terminal (reverse rotation)
34	HALH	O	Motor drive control signal output terminal (speed)
35	DVD_CLK	I	Serial transmission clock signal input terminal to DVD module

Pin No.	Mark	I/O	Function
36	DVD_CMD	I	Serial transmission command signal input terminal to DVD module
37	DVD_STAT	I	Serial transmission status signal input terminal to DVD module
38	SEL 5/1	I	Connected to GND through resistor
39	SW4	I	Clamp switch detection signal input terminal
40	KEY2	-	Operation key 2 signal input terminal (connected to GND)
41	KEY1	-	Operation key 1 signal input terminal (connected to GND)
42	CSEL	I	Chip select signal input terminal (connected to GND through resistor)

14. Block Diagram

15. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)

Note:

S621

: Power On/Off switch

S630

: Open/ Close switch

S631

: Stop switch

S632

: Pause switch

S633

: Play switch

S634

: RWD switch

S635

: FWD switch

S636

: Selector switch

S637

: Subwoofer Level switch

S638

: SFC switch

S639

: Disc Skip switch

SW1

: Push switch

SW2

: Push switch

SW3

: switch

SW4

: CD switch

SW5

: Lock switch

SW 2601

: Leaf switch

VR601

: Volume Jog

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

(( )) **: CD** **< >** **: FM**

- Importance safety notice :

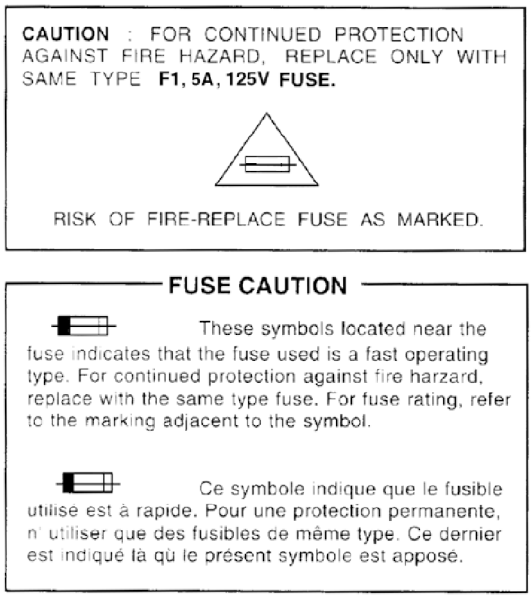
Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have

purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution !

IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

- **Cover the parts boxes made of plastics with aluminium foil.**
- **Put a conductive mat on the work table.**
- **Ground the soldering iron.**
- **Do not touch the pins of IC, LSI or VLSI with fingers directly.**


CAUTION : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F1, 5A, 125V FUSE.
RISK OF FIRE-REPLACE FUSE AS MARKED.
FUSE CAUTION
These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire harzard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.
Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n' utiliser que des fusibles de même type. Ce dernier est indiqué là qù le présent symbole est apposé.

16. Printed Circuit Board

Note: Circuit board diagrams may be modified at any time with the development of new technology.

17. Wiring Connection Diagram

18. Parts Location and Replacement Parts List

Notes:

- **Important safety notice:**
  Components identified by ⚠ mark have special characteristics

important for safety.
Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)
Parts without these indications can be used for all areas.

- Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode".

- Capacitor values are in microfarads (μ F) unless specified otherwise, P= Pico-farads (pF), F= Farads.

- Resistance values are in ohms, unless specified otherwise, 1K= 1,000 (OHM).

- The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

- [M] Indicates in the Remarks columns indicates parts supplied by MESA.

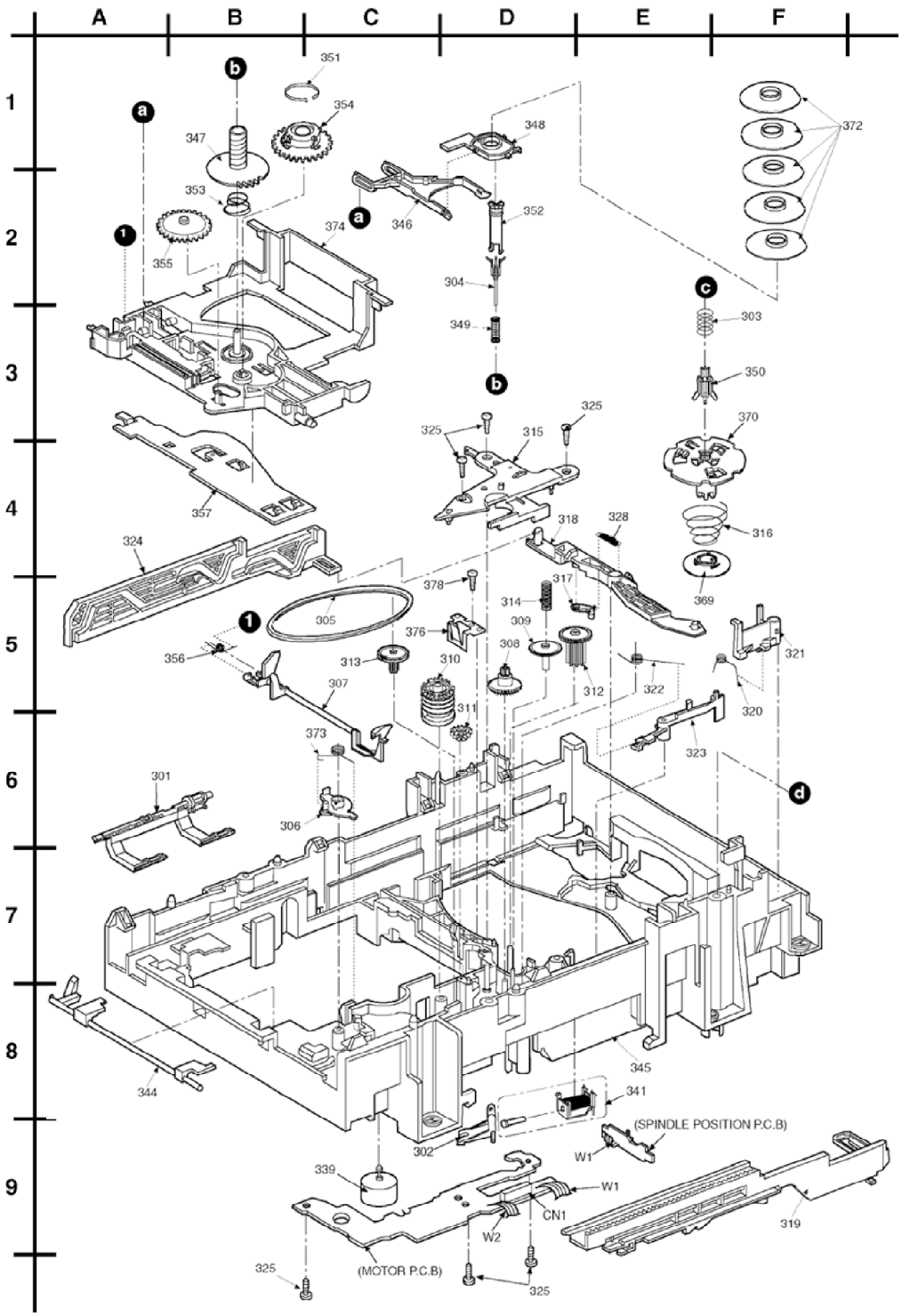
- The "(SF)" mark denotes the standard part.

- Reference for O/I book languages are as follows:

Ar :	Arabic	Du :	Dutch	It :	Italian	Sp :	Spanish
Cf :	Canadian French	En :	English	Ko :	Korean	Sw :	Swedish
Cz :	Czech	Fr :	French	Po :	Polish	Co :	Tradition Chinese
Da :	Danish	Ge :	German	Ru :	Russian	Cn :	Simplifie Chinese

18.1. CD Loading Mechanism (RD-DAC036-S)

18.1.1. CD Loading Mechanism Parts Location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CN1
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(MOTOR P.C.B)
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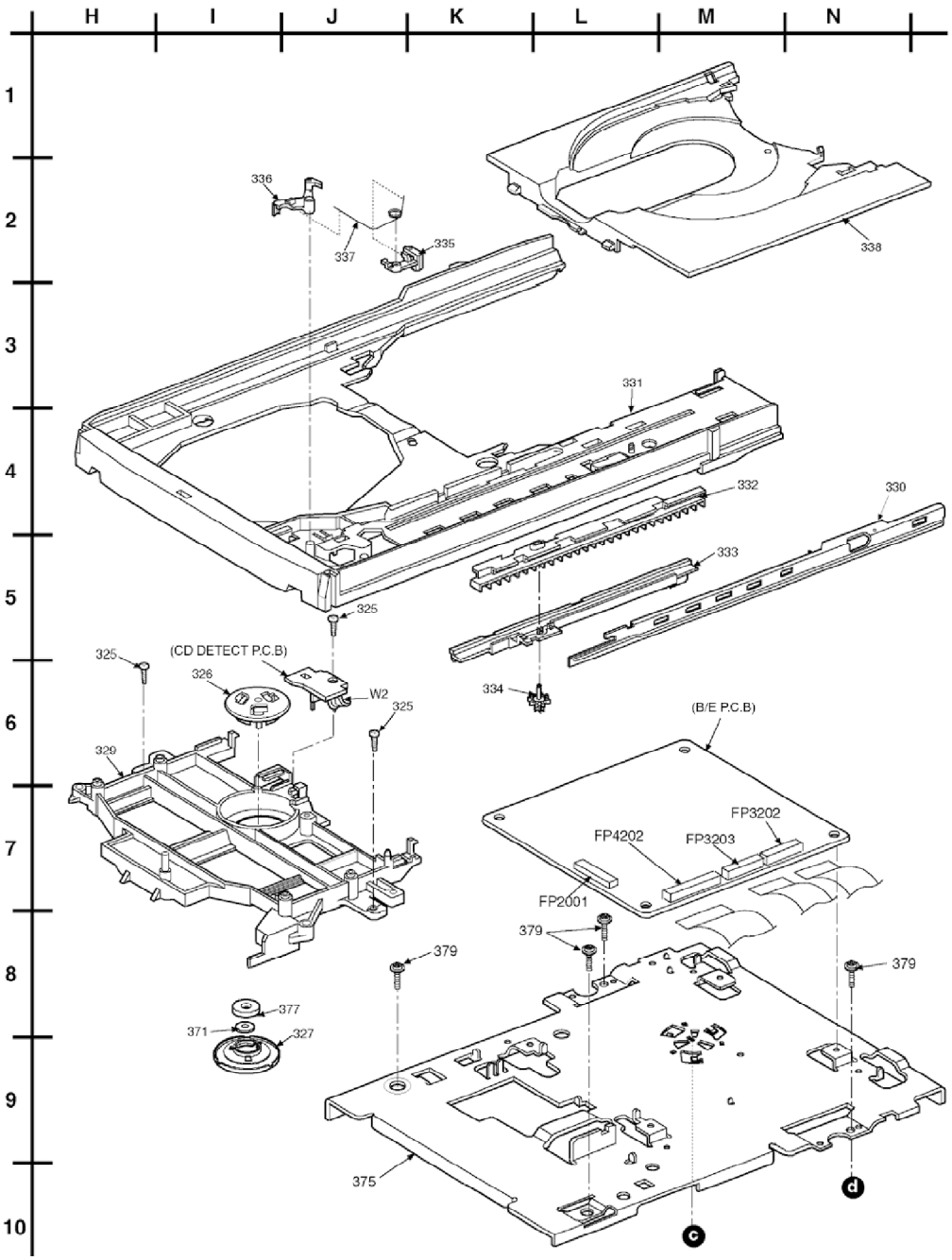
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325
334
(CD DETECT P.C.B)
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W2
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(B/E P.C.B)
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FP3203
FP2001
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375
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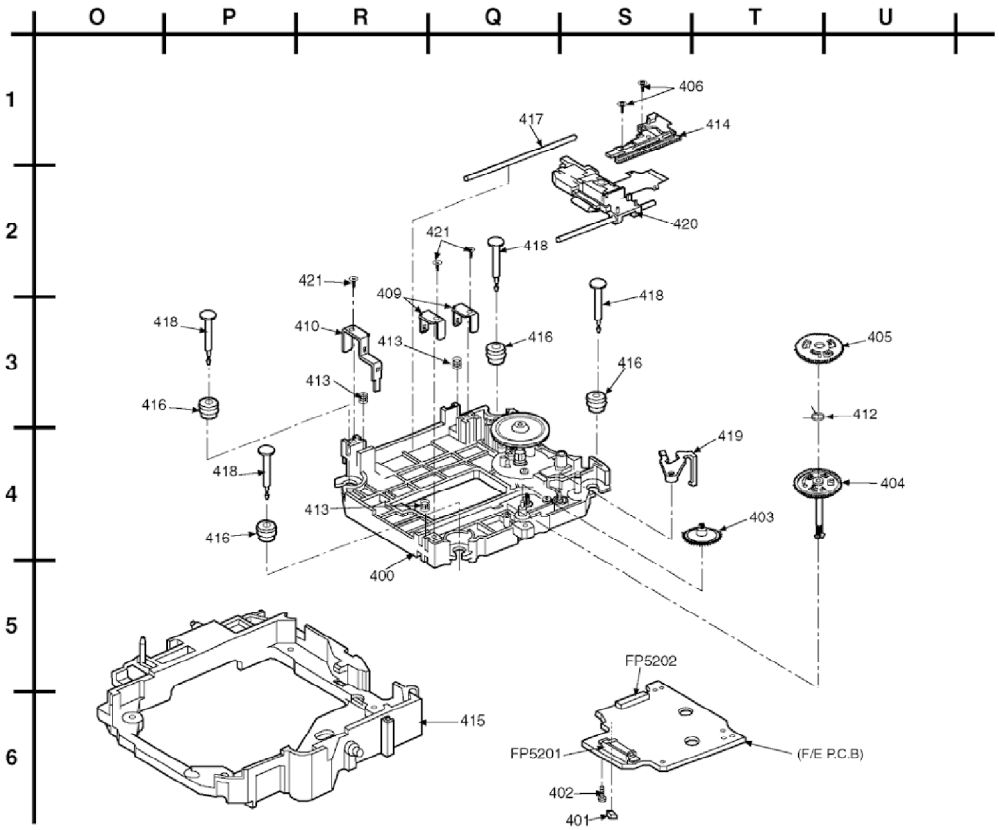


18.1.2. CD Loading Mechanism Parts List

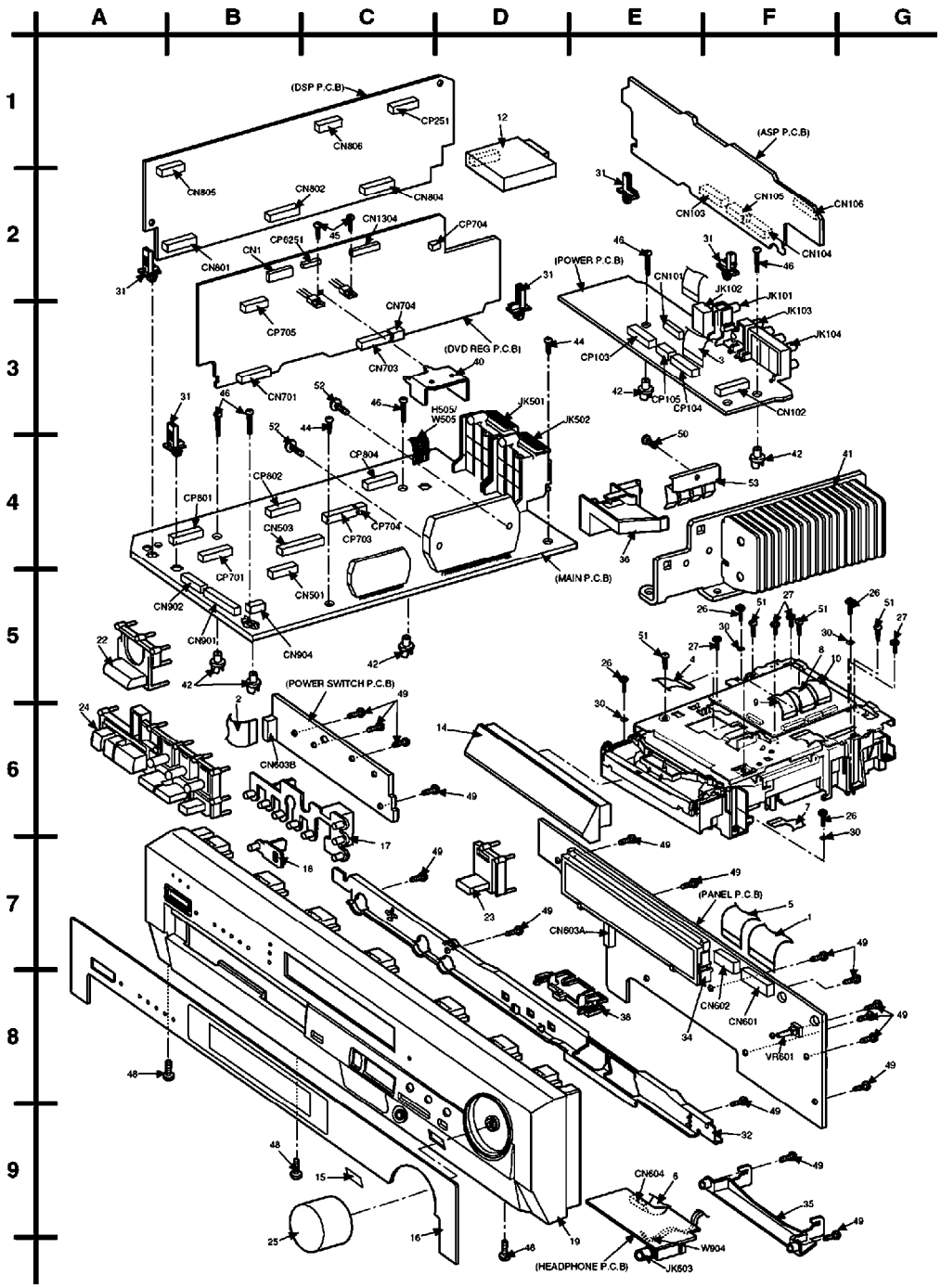
Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RML0517	TIMING LEVER	[M]
302	RML0516	PLUNGER LEVER	[M]
303	RMB0551	UPPER SPINDLE SPRING	[M]
304	RMQ0744	LOWER HOOK	[M]
305	RDV0056	BELT	[M]
306	RML0525	FRONT LOCK	[M]
307	RML0526	DISC LEVER	[M]
308	RDG0424	DRIVE GEAR	[M]
309	RDG0425	CHANGE GEAR	[M]
310	RDG0427	TRV CAM GEAR	[M]
311	RDG0428	TRV RELAY GEAR	[M]
312	RDG0426	UP/DOWN GEAR	[M]
313	RDG0429	PULLEY GEAR	[M]
314	RMB0549-1	CHANGR GEAR SPRING	[M]
315	RMQ0748	PITCH PLATE	[M]
316	RMB0553	PUSH SPRING	[M]
317	RML0530	ASSIST LEVER	[M]
318	RML0518	CONNECTION LEVER	[M]
319	RMM0201	SLIDE PLATE 1	[M]
320	RME0258	REAR LOCK SPRING	[M]
321	RML0521	REAR LOCK LEVER	[M]
322	RME0257	TRAY LOCK LEVER SPRI	[M]
323	RML0520	TRAY LOCK	[M]

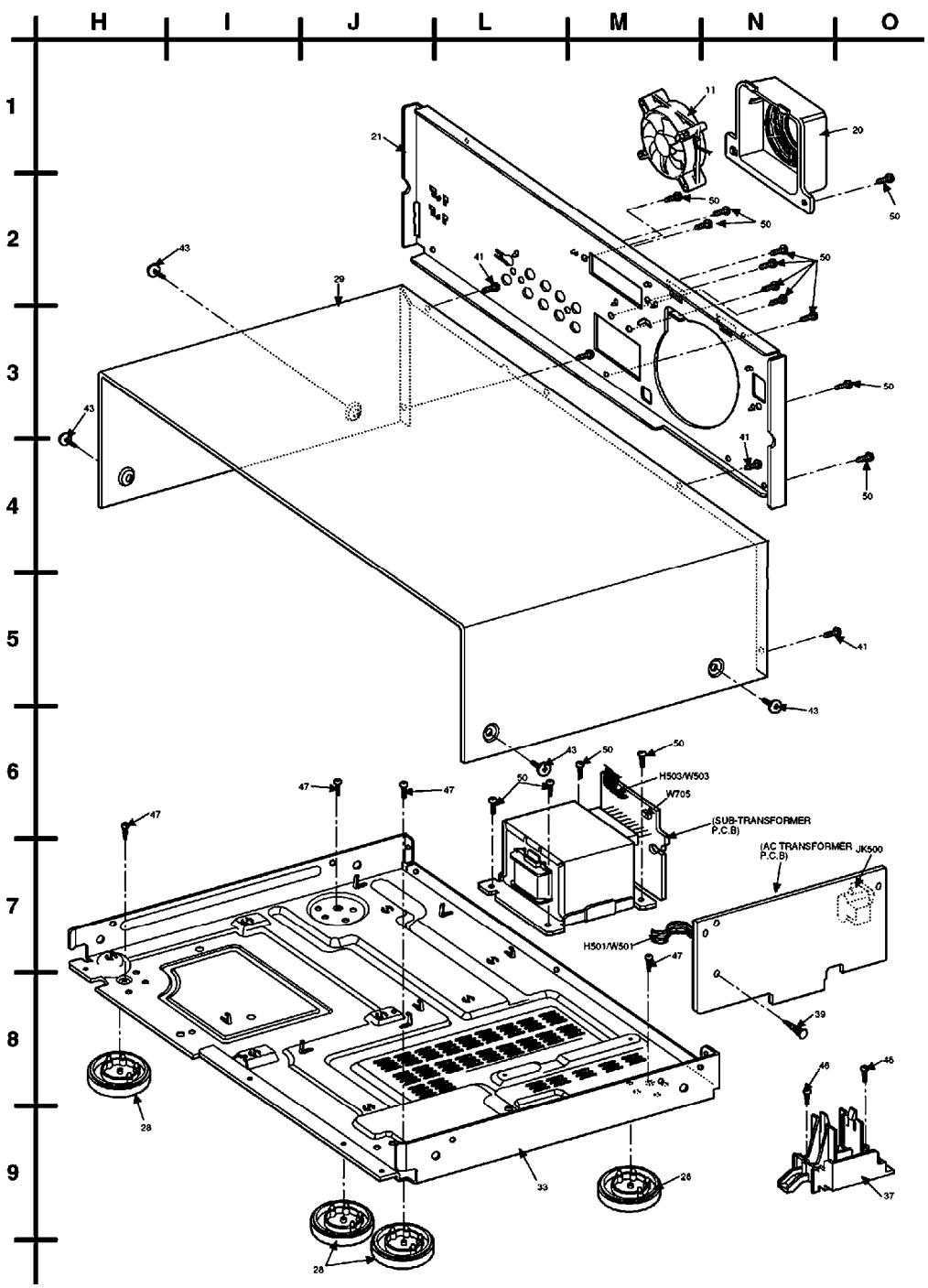
Ref. No.	Part No.	Part Name & Description	Remarks
324	RMM0202	SLIDE PLATE 2	[M]
325	XTB3+10J	SCREW	[M]
326	RMR1367-K	FIXED PLATE	[M]
327	RMR0624-W	CLAMPER	[M]
328	RMB0561	ASSIST LEVER SPRING	[M]
329	RMR1121-K	MECHA COVER	[M]
330	RMA1110-2	TRAY ANGLE	[M]
331	RMR1122-H1	TRAYBASE	[M]
332	RMM0204	CARRIER	[M]
333	RMM0203	DRIVE RACK	[M]
334	RDG0432	SPEED UP GEAR	[M]
335	RML0524	SLIDE LOCK	[M]
336	RML0523	CARRIER LOCK	[M]
337	RME0260-1	SLIDE LOCK SPRING	[M]
338	RMR1123-H	TRAY	[M]
339	RXQ0595	MOTOR ASSY	[M]
341	RSJ0003	SOLENOLD ASSY	[M]
344	RML0519	8CD LEVER	[M]
345	RFKNAAK27GCS	MECHA BASE ASS'Y	[M]
346	RML0522	TURNING STOPPER	[M]
347	RMQ0745	LOWER SPINDLE	[M]
348	RMQ0746	UP/DOWN BASE	[M]
349	RMB0550	LOWER SPINDLE SP	[M]
350	RMQ0747	UPPER HOOK	[M]
351	RME0263	CLICK SPRING	[M]
352	RMQ0743	SPINDLE SHAFT	[M]
353	RMB0552	CUSHION SPRING	[M]
354	RDG0430	RELAY GEAR A	[M]
355	RDG0431	RELAY GEAR B	[M]
356	RME0262	DISK LEVER SP.	[M]
357	RMA1105	SUPPORT PLATE	[M]
369	RMX0141	PUSH SPACER	[M]
370	RMQ0749	UPPER SPINDLE	[M]
371	RHM0001	MAGNET	[M]
372	RMX0140	DISC SPACER	[M]
373	RME0261	FRONT LOCK SPRING	[M]
374	RMQ0742	SPINDLE BASE	[M]
375	RMA1435	PB ANGLE	[M]
376	RMC0387	SUPPORT SPRING	[M]
377	RMA1003	BACK YOKE	[M]
378	XTV2+6G	PCB SCREW	[M]
379	XTW3+10T	SCREW	[M]
400	RXQ0749A	SPINDLE MOTOR ASS'Y	[SPC]
401	RMG0558-K	P.C.B. RUBBER	[M]
403	RDG0499	TRV GEAR A	[M]
404	RDG0500	TRV GEAR B	[M]
405	RDG0501	TRV GEAR C	[M]
406	RHD17036	DRIVE RACK SCREW	[M]
409	RMC0415	ADJUST SPRING HOLDER	[M]
410	RMC0416	ADJUST SPRING HOLDER	[M]
412	RME0319	TRV GEAR SPRING	[M]
413	RME0320	ADJUSTMENT SPRING	[M]
414	RMM0234-1	TRV DRIVE RACK	[M]
415	RMR1366-K	UNIT CHASSIS	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
416	RMG0545-A	FLOATING RUBBER	[M]
417	RMS0711	GUIDE SHAFT	[M]
418	RMS0712-1	FIXED PIN	[M]
419	RMX0192	INNER STOPPER	[M]
420	RXQ0810	OPU UNIT	[M]
421	VHD1224	ADJ SPRING HOLDER SC	[M]

18.2. Cabinet

18.2.1. Cabinet Parts Location





18.2.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REE1019	22P FFC	[M]
2	REE1020	11P FFC	[M]
3	REE1025	P1.0 FFC LONG (26P)	[M]
4	REEX0190	50P FFC	[M]
5	REE1088	FFC (14P) P1.25	[M]
6	REE1089	FFC (14P) P1.25	[M]
7	REE1090	FFC (14P) P1.25	[M]
8	REE1091	FFC 15P P1.0	[M]
9	REE1092	FFC 17P F1.0	[M]
10	REE1093	FFC 26P P1.0	[M]
11	REM0072-3	FAN	[M]
12	RAN0004MM-2	TUNER PACK	[M]
14	RGK1426A-S	CD LID	[M]
15	RGK1428-Q	SENSOR PANEL	[M]
16	RGK1509-S	PANEL ORNAMEN	[M]
17	RGL0563-Q	PANEL LIGHT (A)	[M]
18	RGL0564-Q	PANEL LIGHT (B)	[M]
19	RGP0881A-S	FRONT PANEL	[M]
20	RGQ0277-H	FAN COVER	[M]
21	RGR0304H-A	REAR PANEL	[M]P
21	RGR0304H-B	REAR PANEL	[M]PC
22	RGU2022-S	POWER BUTTON	[M]
23	RGU2023-S	OPEN/CLOSE BUTTON	[M]
24	RGU2024-S	OPERATION BUTTON	[M]
25	RGW0390-S	VOLUME KNOB	[M]
26	RHD30075	SCREW	[M]
27	RHD30078	SCREW	[M]
28	RKA0079-A	FOOT	[M]
29	RKM0425-S	TOP CAB	[M]
30	RMG0402-K	RUBBER WASHER	[M]
31	RMN0203	PCB HOLDER	[M]
32	RMA1502	SUPPORT ANGLE	[M]
33	RMK0461B-1	BOTTOM CHASSIS	[M]
34	RMN0603-2	FL HOLDER	[M]
35	RMN0604	MIC JACK HOLDER	[M]
36	RMN0606	WIRE SUPPORT	[M]
37	RMN0638-1	SUB TRANS SUPPORT	[M]
38	RMN0669	SUPPORT PIECE	[M]
39	RMN0702	PCB SPACER	[M]
40	RMY0241	SUB HEAT SINK	[M]
41	RXX0225	HEATSINK UNIT	[M]
42	SHE187-6J	PCB SUPPORT	[M]
43	SNE2129-4	SCREW	[M]
44	XTB3+10J	SCREW	[M]
45	XTB3+10JFZ	SCREW	[M]
46	XTB3+20J	SCREW	[M]
47	XTB3+6J	SCREW	[M]
48	XTB3+8JFZ	SCREW	[M]
49	XTBS26+10J	SCREW	[M]
50	XTBS3+8JFZ1	SCREW	[M]
51	XTW3+10T	SCREW	[M]
52	XTW3+15T	SCREW	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
53	RMC0412	REGULATOR CLUMPER	[M]

18.3. Component Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REP3382A-N	FRONT END P.C.B.(SIDE A)	[M](RTL)
	REP3382A-N	FRONT END P.C.B.(SIDE B)	[M](RTL)
	REP3380A	DVD B/E MODULE (1/2) P.C.B.	[M](RTL)
	REP3380A	DVD B/E MODULE (2/2) P.C.B.	[M](RTL)
	REP3376A	INPUT P.C.B.	[M](RTL)
	REP3376A	ASP P.C.B.	[M](RTL)
	REP3376A	DSP P.C.B.	[M](RTL)
	REP3376A	DVD REG P.C.B.	[M](RTL)
	REP2578A-N	CD LOADING P.C.B.	[M](RTL)
	REP2578A-N	CD DETECT P.C.B.	[M](RTL)
	REP2578A-N	SPINDLE POSITION P.C.B.	[M](RTL)
	REP3284A	PANEL P.C.B.	[M](RTL)
	REP3284A	POWER SWITCH P.C.B.	[M](RTL)
	REP3284A	HEADPHONE P.C.B.	[M](RTL)
	REP3282B	MAIN P.C.B.	[M](RTL)
	REP3282B	SUB-TRANSFORMER P.C.B.	[M](RTL)
	REP3282B	AC TRANSFORMER P.C.B.	[M](RTL)
	REP3282B	F.G P.C.B.	[M](RTL)
		INTEGRATED CIRCUITS	
IC1	C0GAM0000005	IC DRIVE	[M]
IC101	C9ZB00000377	IC	[M]
IC103	M5228FPE1	IC QUAD OP AMP	[M]
IC104	KIA4558FEL	IC DUAL OP-AMP	[M]
IC106	M62444FPE1	IC DPL SURROUND DECODER	[M]
IC108	C0JBAR000292	IC TRIPLE 2CH ANALOG MULTIPLEXOR	[M]
IC252	M5228FPE1	IC QUAD OP AMP	[M]
IC253	KIA4558FEL	IC DUAL OP-AMP	[M]
IC401	M5218AP	IC DUAL OP AMP	[M]
IC402	M5228FPE1	IC QUAD OP AMP	[M]
IC451	C2BBFD000307	IC MECHA CON	[M]
IC501	RSN311W64B-P	IC HIC	[M] ⚠
IC502	STK470-050A	IC HIC	[M] ⚠
IC601	C2BBGF000311	IC SYSTEM CONTROL	[M]
IC602	BR93LC46FE2	IC EPROM	[M]
IC702	C0DBAJG00002	IC VOLTAGE REGULATOR	[M] ⚠
IC703	LM2940T5M	IC VOLTAGE REGULATOR	[M] ⚠
IC740	C0DBAJG00002	IC VOLTAGE REGULATOR	[M] ⚠
IC801	C2HBZC000013	IC DSP	[M]
IC802	NJU7313AMT2	IC ANALOG SWITCH	[M]
IC803	M5228FPE1	IC QUAD OP AMP	[M]
IC805	C2BBFD000344	IC DSP MECHA CONTROL	[M]
IC2001	MN103S26EGA	IC SODC	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
IC2501	C0GBG0000033	IC MOTOR DRIVER	[M]
IC3001	MN677531KA	IC AV-DECODER	[M]
IC3061	C3ABPG000068	IC 64M SDRAM	[M]
IC3071	C0CBCBD00002	IC REGULATOR	[M] ⚠
IC3261	C0JBAR000290	IC TRIPLE 2CH ANALOG MULTIPLEXOR	[M]
IC3701	C1AB00001554	IC PROGRESSIVE	[M]
IC3731	C3ABPJ000018	IC 64M SDRAM	[M]
IC3751	C1AB00001499	IC PROGRESSIVE DAC	[M]
IC4211	C0FBBK000022	IC 8CH AUDIO DAC	[M]
IC5201	AN8703FH-V	IC FEP	[M]
IC5261	C0ABHB000004	IC FEP OP AMP	[M]
IC5262	C0ABBA000121	IC FEP OP AMP	[M]
IC5264	C0JBAR000155	IC 2CH MULTIPLEXOR	[M]
IC6201	MN102H60GFB	IC CPU	[M]
IC6211	C0EBE0000070	IC RESET	[M]
IC6222	C0JBAA000001	IC CMOS LOGIC	[M]
IC6223	C0JBAA000001	IC CMOS LOGIC	[M]
IC6251	C0CBCBE00001	IC REGULATOR 3.3V	[M] ⚠
IC6261	C0DBFFG00004	IC REG	[M] ⚠
IC6301	RFKFMA502160	IC 16M FLASH ROM	[SPC]
IC6501	C1DB00000582	IC MICROCONTROLLER	[M]
IC6521	C0JBAB000356	IC CLK	[M]
IC6801	MN5B00	IC WATER MARK	[M]
		TRANSISTORS	
Q1	B1GACFGG0004	TRANSISTOR	[M]
Q120	UN2212TX	TRANSISTOR	[M]
Q130	B1AAGC000007	TRANSISTOR	[M]
Q131	B1AAGC000007	TRANSISTOR	[M]
Q132	KRA111MTA	TRANSISTOR	[M]
Q133	B1AAGC000007	TRANSISTOR	[M]
Q135	B1AAJC000007	TRANSISTOR	[M]
Q136	B1AAJC000007	TRANSISTOR	[M]
Q137	KRA111MTA	TRANSISTOR	[M]
Q138	UN2212TX	TRANSISTOR	[M]
Q139	B1GDCFEM0002	TRANSISTOR	[M]
Q142	B1AAGC000007	TRANSISTOR	[M]
Q143	B1AAGC000007	TRANSISTOR	[M]
Q251	B1GFGCAA0001	TRANSISTOR	[M]
Q252	B1GFGCAA0001	TRANSISTOR	[M]
Q253	B1GFGCAA0001	TRANSISTOR	[M]
Q254	B1GBCFJN0004	TRANSISTOR	[M]
Q255	B1GDCFJJ0002	TRANSISTOR	[M]
Q256	B1GBCFJN0004	TRANSISTOR	[M]
Q401	B1AAGC000007	TRANSISTOR	[M]
Q402	B1AAGC000007	TRANSISTOR	[M]
Q403	B1AAGC000007	TRANSISTOR	[M]
Q404	KRA111MTA	TRANSISTOR	[M]
Q405	KRA111MTA	TRANSISTOR	[M] ⚠
Q406	KRA111MTA	TRANSISTOR	[M]
Q407	KTC3199GRTA	TRANSISTOR	[M]
Q408	B1AAGC000007	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q409	KRA111MTA	TRANSISTOR	[M]
Q410	KTC3199GRTA	TRANSISTOR	[M] ⚠
Q451	2SB0621ARA	TRANSISTOR	[M]
Q452	B1GBCFJN0004	TRANSISTOR	[M]
Q501	KTC3199GRTA	TRANSISTOR	[M]
Q502	KTC3199GRTA	TRANSISTOR	[M]
Q503	KTC3199GRTA	TRANSISTOR	[M]
Q504	KRA102MTA	TRANSISTOR	[M]
Q505	KTC3199GRTA	TRANSISTOR	[M]
Q531	KTC3199GRTA	TRANSISTOR	[M] ⚠
Q541	2SB621ARSTA	TRANSISTOR	[M] ⚠
Q551	B1ACCF000037	TRANSISTOR	[M]
Q552	KRC111MTA	TRANSISTOR	[M]
Q553	KTC3199GRTA	TRANSISTOR	[M]
Q554	2SB0621ARA	TRANSISTOR	[M]
Q555	KTC3199GRTA	TRANSISTOR	[M]
Q556	KTC3199GRTA	TRANSISTOR	[M]
Q557	B1ACCF000037	TRANSISTOR	[M]
Q558	KTC3199GRTA	TRANSISTOR	[M] ⚠
Q592	2SC3940ARA	TRANSISTOR	[M]
Q594	KRC102MTA	TRANSISTOR	[M]
Q601	B1GACFLL0005	TRANSISTOR	[M]
Q604	B1GBCFJN0004	TRANSISTOR	[M]
Q605	B1GBCFJN0004	TRANSISTOR	[M]
Q606	B1GBCFJJ0002	TRANSISTOR	[M]
Q607	B1GDCFJJ0002	TRANSISTOR	[M] ⚠
Q608	B1GBCFJN0004	TRANSISTOR	[M]
Q609	B1GBCFJN0004	TRANSISTOR	[M]
Q610	B1GBCFJN0004	TRANSISTOR	[M]
Q611	B1GBCFJN0004	TRANSISTOR	[M]
Q612	B1GBCFJN0004	TRANSISTOR	[M]
Q701	B1GDCFJJ0002	TRANSISTOR	[M]
Q702	B1GBCFJN0004	TRANSISTOR	[M] ⚠
Q703	KTA1046	TRANSISTOR	[M] ⚠
Q704	B1ABCF000011	TRANSISTOR	[M] ⚠
Q705	B1ADCF000001	TRANSISTOR	[M]
Q710	2SB621ARSTA	TRANSISTOR	[M] ⚠
Q711	B1ABCF000011	TRANSISTOR	[M] ⚠
Q712	2SB621ARSTA	TRANSISTOR	[M] ⚠
Q713	B1ABCF000011	TRANSISTOR	[M] ⚠
Q805	B1GDCFJJ0002	TRANSISTOR	[M] ⚠
Q806	2SB14170QA	TRANSISTOR	[M] ⚠
Q807	B1ABCF000011	TRANSISTOR	[M] ⚠
Q808	2SB621ARSTA	TRANSISTOR	[M]
Q809	B1ABCF000011	TRANSISTOR	[M] ⚠
Q810	B1GFGCAA0001	TRANSISTOR	[M]
Q2001	2SD1819A0L	TRANSISTOR	[M]
Q3101	2SB1218ARL	TRANSISTOR	[M]
Q3106	2SB1218ARL	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q3111	2SB1218ARL	TRANSISTOR	[M]
Q3116	2SB1218ARL	TRANSISTOR	[M]
Q3761	2SA15320XL	TRANSISTOR	[M]
Q3766	2SA15320XL	TRANSISTOR	[M]
Q3771	2SA15320XL	TRANSISTOR	[M]
Q5211	B1BDBF000004	TRANSISTOR	[M]
Q5215	B1BDBF000004	TRANSISTOR	[M]
Q5261	2SC39300XL	TRANSISTOR	[M]
Q5262	2SC39300XL	TRANSISTOR	[M]
Q5263	2SA15320XL	TRANSISTOR	[M]
Q5264	2SC39300XL	TRANSISTOR	[M]
Q5271	UNR521100L	TRANSISTOR	[M]
QR3261	UNR521200L	CHIP TRANSISTOR	[M]
QR5221	UNR212100L	CHIP TRANSISTOR	[M]
QR5241	UNR511M00L	CHIP TRANSISTOR	[M]
QR6215	UNR521200L	CHIP TRANSISTOR	[M]
		DIODES	
D2	B0BA4R600003	DIODE	[M]
D102	B0BC5R000009	DIODE	[M]
D103	B0BC5R000009	DIODE	[M]
D251	1SS355TE17	DIODE	[M]
D252	1SS355TE17	DIODE	[M]
D401	B0BA5R000004	DIODE	[M]
D451	1SS355TE17	DIODE	[M]
D455	RL1N4003N02	DIODE	[M]
D456	1SS355TE17	DIODE	[M]
D500	B0AACK000004	DIODE	[M]
D501	RK306LFU1	DIODE	[M]
D502	RK306LFU1	DIODE	[M]
D503	B0AACK000004	DIODE	[M]
D504	B0AACK000004	DIODE	[M]
D505	B0AACK000004	DIODE	[M]
D506	B0AACK000004	DIODE	[M]
D507	B0AACK000004	DIODE	[M]
D520	B0AACK000004	DIODE	[M]
D521	1N5402BM21	DIODE	[M] ⚠
D522	1N5402BM21	DIODE	[M] ⚠
D523	1N5402BM21	DIODE	[M] ⚠
D524	1N5402BM21	DIODE	[M] ⚠
D525	1N5402BM21	DIODE	[M] ⚠
D526	1N5402BM21	DIODE	[M] ⚠
D527	B0EAKM000085	DIODE	[M]
D528	B0EAKM000085	DIODE	[M]
D531	B0EAKM000085	DIODE	[M] ⚠
D532	B0EAKM000085	DIODE	[M] ⚠
D533	B0EAKM000085	DIODE	[M] ⚠
D534	B0EAKM000085	DIODE	[M] ⚠
D535	B0EAKM000085	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D536	B0EAKM000085	DIODE	[M]
D539	B0BA8R700009	DIODE	[M]
D541	B0EAKM000085	DIODE	[M] ⚠
D542	B0EAKM000085	DIODE	[M] ⚠
D543	B0EAKM000085	DIODE	[M] ⚠
D544	B0EAKM000085	DIODE	[M] ⚠
D545	B0EAKM000085	DIODE	[M] ⚠
D546	B0EAKM000085	DIODE	[M] ⚠
D547	B0BA02600018	DIODE	[M]
D551	B0AACK000004	DIODE	[M]
D552	B0AACK000004	DIODE	[M]
D553	B0AACK000004	DIODE	[M]
D556	MA2C700A0F	DIODE	[M]
D557	MA2C700A0F	DIODE	[M]
D591	B0EAKM000085	DIODE	[M]
D592	B0EAKM000085	DIODE	[M]
D595	B0BA6R800007	DIODE	[M]
D601	1SS355TE17	DIODE	[M]
D602	1SS380TE-17	DIODE	[M]
D603	1SS380TE-17	DIODE	[M]
D604	1SS380TE-17	DIODE	[M]
D607	MA729TX	DIODE	[M]
D608	B0BC5R600003	DIODE	[M]
D609	1SS355TE17	DIODE	[M]
D610	1SS355TE17	DIODE	[M]
D611	SLR325MCT31W	DIODE	[M]
D612	SELS5823C	DIODE	[M]
D613	B3AKA0000006	DIODE	[M]
D614	SLR325MCT31W	DIODE	[M]
D615	SLR325MCT31W	DIODE	[M]
D616	SLR325MCT31W	DIODE	[M]
D617	SLR325MCT31W	DIODE	[M]
D618	SLR325MCT31W	DIODE	[M]
D664	1SS355TE17	DIODE	[M]
D665	1SS355TE17	DIODE	[M]
D668	1SS355TE17	DIODE	[M]
D701	RL1N4003N02	DIODE	[M] ⚠
D702	RL1N4003N02	DIODE	[M] ⚠
D703	RL1N4003N02	DIODE	[M] ⚠
D704	RL1N4003N02	DIODE	[M] ⚠
D705	B0ADCC000002	DIODE	[M]
D706	B0BC5R000009	DIODE	[M]
D707	B0BC9R000008	DIODE	[M]
D708	1SS355TE17	DIODE	[M]
D709	SFPB-72V	DIODE	[M]
D710	B0BC7R500001	DIODE	[M]
D712	B0ADCC000002	DIODE	[M]
D713	B0ADCC000002	DIODE	[M]
D714	1SS355TE17	DIODE	[M]
D715	1SS355TE17	DIODE	[M]
D740	SFPB-72V	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D741	B0BC7R500001	DIODE	[M]
D801	RL1N4003N02	DIODE	[M]
D802	RL1N4003N02	DIODE	[M]
D803	B0ADCC000002	DIODE	[M]
D804	B0ADCC000002	DIODE	[M]
D805	B0BC5R000009	DIODE	[M]
D2001	MA2J72800L	DIODE	[M]
D3071	MA2J11100L	DIODE	[M]
D5261	MA3X71600L	DIODE	[M]
D6215	MA2J72800L	DIODE	[M]
LB3001	J0JHC0000045	CHIP CAPACITOR	[M]
LB3002	J0JHC0000045	CHIP CAPACITOR	[M]
LB3202	D0GB101JA002	100 1/16W	[M]
LB3203	D0GB101JA002	100 1/16W	[M]
LB3204	D0GB101JA002	100 1/16W	[M]
LB3302	VLP0155-T	CHIP BEAD	[M]
LB3303	VLP0155-T	CHIP BEAD	[M]
LB3304	VLP0155-T	CHIP BEAD	[M]
LB3305	VLP0155-T	CHIP BEAD	[M]
LB3701	J0JHC0000045	CHIP CAPACITOR	[M]
LB3702	J0JHC0000045	CHIP CAPACITOR	[M]
LB4200	J0JCC0000062	CHIP INDUCTOR	[M]
LB4201	J0JCC0000062	CHIP INDUCTOR	[M]
LB4202	J0JCC0000062	CHIP INDUCTOR	[M]
LB4203	J0JCC0000062	CHIP INDUCTOR	[M]
LB4204	J0JCC0000062	CHIP INDUCTOR	[M]
LB4205	J0JCC0000062	CHIP INDUCTOR	[M]
LB4206	J0JCC0000062	CHIP INDUCTOR	[M]
LB4207	J0JCC0000062	CHIP INDUCTOR	[M]
LB4208	J0JCC0000062	CHIP INDUCTOR	[M]
LB4209	J0JCC0000062	CHIP INDUCTOR	[M]
LB4210	J0JCC0000062	CHIP INDUCTOR	[M]
LB4211	J0JCC0000062	CHIP INDUCTOR	[M]
LB4212	J0JCC0000062	CHIP INDUCTOR	[M]
LB4213	J0JCC0000062	CHIP INDUCTOR	[M]
LB4214	J0JCC0000062	CHIP INDUCTOR	[M]
LB4215	J0JCC0000062	CHIP INDUCTOR	[M]
LB4216	J0JCC0000062	CHIP INDUCTOR	[M]
LB4217	J0JCC0000062	CHIP INDUCTOR	[M]
LB5001	J0JCC0000062	CHIP INDUCTOR	[M]
LB5002	J0JCC0000062	CHIP INDUCTOR	[M]
LB5201	J0JCC0000062	CHIP INDUCTOR	[M]
LB5202	J0JCC0000062	CHIP INDUCTOR	[M]
LB5203	J0JHC0000045	CHIP CAPACITOR	[M]
LB5204	J0JHC0000045	CHIP CAPACITOR	[M]
LB5205	J0JHC0000045	CHIP CAPACITOR	[M]
LB5206	J0JHC0000045	CHIP CAPACITOR	[M]
LB5207	J0JHC0000045	CHIP CAPACITOR	[M]
LB5208	J0JCC0000062	CHIP INDUCTOR	[M]
LB5209	J0JCC0000062	CHIP INDUCTOR	[M]
LB5210	J0JCC0000062	CHIP INDUCTOR	[M]
LB5211	VLP0155-T	CHIP BEAD	[M]
LB5212	J0JCC0000062	CHIP INDUCTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
LB5213	J0JCC0000062	CHIP INDUCTOR	[M]
LB5214	J0JCC0000062	CHIP INDUCTOR	[M]
LB5215	J0JHC0000045	CHIP CAPACITOR	[M]
LB5216	VLP0155-T	CHIP BEAD	[M]
LB5217	VLP0155-T	CHIP BEAD	[M]
LB5218	VLP0155-T	CHIP BEAD	[M]
LB5219	VLP0155-T	CHIP BEAD	[M]
LB5220	J0JCC0000062	CHIP INDUCTOR	[M]
LB5221	J0JCC0000062	CHIP INDUCTOR	[M]
LB5222	VLP0155-T	CHIP BEAD	[M]
LB5223	VLP0155-T	CHIP BEAD	[M]
LB5224	J0JCC0000062	CHIP INDUCTOR	[M]
LB5225	J0JCC0000062	CHIP INDUCTOR	[M]
LB5226	J0JDC0000002	CHIP INDUCTOR	[M]
LB5227	J0JDC0000002	CHIP INDUCTOR	[M]
LB5228	J0JDC0000002	CHIP INDUCTOR	[M]
LB5229	J0JDC0000002	CHIP INDUCTOR	[M]
LB5230	VLP0155-T	CHIP BEAD	[M]
LB5231	VLP0155-T	CHIP BEAD	[M]
LB6201	J0JCC0000062	CHIP INDUCTOR	[M]
LB6202	VLP0155-T	CHIP BEAD	[M]
LB6221	J0JCC0000062	CHIP INDUCTOR	[M]
LB6501	J0JCC0000062	CHIP INDUCTOR	[M]
LB6502	J0JCC0000062	CHIP INDUCTOR	[M]
LB6512	VLP0155-T	CHIP BEAD	[M]
LB6513	VLP0155-T	CHIP BEAD	[M]
LB6514	VLP0155-T	CHIP BEAD	[M]
LB6515	VLP0157-T	CHIP INDUCTOR	[M]
LB6521	J0JCC0000062	CHIP INDUCTOR	[M]
LB6522	VLP0155-T	CHIP BEAD	[M]
LB6801	J0JHC0000045	CHIP CAPACITOR	[M]
LB6802	J0JHC0000045	CHIP CAPACITOR	[M]
		VARIABLE RESISTORS	
VR601	EVEKE2F3024M	VOLUME JOG	[M]
		SWITCHES	
S621	EVQ11G05R	SW POWER ON/OFF	[M]
S630	EVQ11G05R	SW OPEN/CLOSE	[M]
S631	EVQ11G05R	SW STOP/TUNE MODE	[M]
S632	EVQ11G05R	SW PAUSE/FM MODE	[M]
S633	EVQ11G05R	SW PLAY	[M]
S634	EVQ11G05R	SW RWD	[M]
S635	EVQ11G05R	SW FWD	[M]
S636	EVQ11G05R	SW SELECTOR	[M]
S637	EVQ11G05R	SW S.WOOFER LEVEL	[M]
S638	EVQ11G05R	SW SFC	[M]
S639	EVQ11G05R	SW DISC SKIP	[M]
		SWITCHES	
SW1	RSH1A032-U	SW PUSH	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
SW2	RSH1A032-U	SW PUSH	[M]
SW3	RSH1A005-1U	SWITCH	[M]
SW4	RSH1A91ZA-A	SW CD	[M]
SW5	K0L1BB000005	SW LOCK	[M]
SW2601	RSH1A048-A	SW LEAF	[M]
		CONNECTORS	
CN1	K1MN14A00049	14P FFC CONNECTOR	[M]
CN1	K1MN14B00058	14P CONNECTOR	[M]
CN101	K1MN15A00049	15P P1 FFC CONNECTOR	[M]
CN102	RJS1A5212	12P CONNECTOR	[M]
CN103	RJU057G07	7P CONNECTOR	[M]
CN104	K1KB10B00041	10P P2 MQ CONNECTOR	[M]
CN105	RJU057G07	7P CONNECTOR	[M]
CN106	RJS2A7726	FFC CONNECTOR	[M]
CN501	K1KA05A00084	CONNECTOR	[M]
CN503	K1KA12A00066	CONNECTOR	[M]
CN601	RJS1A6222-1	22 FFC CON	[M]
CN602	RJS1A6214-1	14P FFC CONNECTOR	[M]
CN603A	RJS1A6211-1	11P FFC BOTTOM INSER	[M]
CN603B	RJS1A9411	11P FFC TOP INSERT	[M]
CN604	K1MN14A00049	14P FFC CONNECTOR	[M]
CN701	RJU057G12	12 P2 MQ CONNECTOR	[M]
CN703	RJU057G12	12P P2 MQ CONNECTOR	[M]
CN704	RJU057W004	SOCKET (4P)	[M]
CN801	K1KB10B00041	10P P2 MQ CONNECTOR	[M]
CN802	K1KB10B00041	10P P2 MQ CONNECTOR	[M]
CN804	RJU057G12	12P P2 MQ CONNECTOR	[M]
CN805	K1MN14B00058	14P CONNECTOR	[M]
CN806	RJS2A7726	FFC CONNECTOR	[M]
CN901	K1MN22A00010	22 FFC CON	[M]
CN902	K1MN14A00049	14P FFC CONNECTOR	[M]
CN904	RJT029W02V-1	SP CONNECTOR	[M]
CN1304	RJS2A7726	FFC CONNECTOR	[M]
CP103	RJT057G07	7P CONNECTOR	[M]
CP104	K1KA10A00257	10P P2 MQ CONNECTOR	[M]
CP105	RJT057G07	7P CONNECTOR	[M]
CP251	RJT100W11	11P CONNECTOR	[M]
CP701	K1KA12A00184	12P P2 MQ CONNECTOR	[M]
CP703	K1KA12A00184	12P P2 MQ CONNECTOR	[M]
CP704	K1KA02A00008	CONNECTOR	[M]
CP704	RJT057W004-1	4P CONNECTOR	[M]
CP705	RJT029W03VT	2.5MM CONNECTOR	[M]
CP801	K1KA10A00257	10P P2 MQ CONNECTOR	[M]
CP802	K1KA10A00257	10P P2 MQ CONNECTOR	[M]
CP804	K1KA12A00184	12P P2 MQ CONNECTOR	[M]
CP6251	RJS2A7717	FFC CONNECTOR	[M]
PS6201	K1MN10A00030	CONNECTOR	[M]
		COILS & TRANSFORMERS	

Ref. No.	Part No.	Part Name & Description	Remarks
L101	ELJFCR39KF	CHIP INDUCTOR	[M]
L102	VLP0145-T	CHIP INDUCTOR	[M]
L103	VLP0145-T	CHIP INDUCTOR	[M]
L104	VLP0145-T	CHIP INDUCTOR	[M]
L105	VLP0145-T	CHIP INDUCTOR	[M]
L106	VLP0145-T	CHIP INDUCTOR	[M]
L107	VLP0145-T	CHIP INDUCTOR	[M]
L108	ELJFCR68JF	CHIP INDUCTOR	[M]
L111	ELESN220JA	COIL	[M]
L451	RLQB101KT-1Y	COIL	[M]
L452	G0C100JA0030	INDUCTOR	[M]
L500	RLQZ371	LINE FILTER	[M] ⚠
L601	RLBN102V-Y	CHIP INDUCTOR	[M]
L602	RLBN102V-Y	CHIP INDUCTOR	[M]
L701	RLL500050T-Y	RF CHOKE COIL	[M]
L702	G0ZZ00001930	COIL	[M]
L703	RLL500050T-Y	RF CHOKE COIL	[M]
L704	RLL500050T-Y	RF CHOKE COIL	[M]
L705	RLL500050T-Y	RF CHOKE COIL	[M]
L740	RLL500050T-Y	RF CHOKE COIL	[M]
L741	G0ZZ00001930	COIL	[M]
L801	RLBN102V-Y	CHIP INDUCTOR	[M]
L802	G0C100JA0030	INDUCTOR	[M]
L803	G0C100JA0030	INDUCTOR	[M]
L804	RLBN102V-Y	CHIP INDUCTOR	[M]
L805	RLBN102V-Y	CHIP INDUCTOR	[M]
L806	G0C100JA0030	INDUCTOR	[M]
L905	RLBV252AV-Y	LINE COIL	[M]
L906	RLBV252AV-Y	LINE COIL	[M]
L907	RLBV252AV-Y	LINE COIL	[M]
L908	RLBV252AV-Y	LINE COIL	[M]
L909	RLBV252AV-Y	LINE COIL	[M]
L910	RLBV252AV-Y	LINE COIL	[M]
L2001	G1C100KA0019	CHIP INDUCTOR	[M]
L2002	G1C100KA0019	CHIP INDUCTOR	[M]
L2021	G1C100KA0019	CHIP INDUCTOR	[M]
L2501	ERJ14Y0R00H	CHIP RESISTOR	[M]
L3071	G1C100KA0008	CHIP INDUCTOR	[M]
L3701	G1C220JA0010	CHIP INDUCTOR	[M]
L4211	G1C220K00011	CHIP INDUCTOR	[M]
L5201	ELJEA100KF	CHIP INDUCTOR	[M]
L5202	ELJEA100KF	CHIP INDUCTOR	[M]
L6501	G1C220JA0010	CHIP INDUCTOR	[M]
L6502	ELJFC220KF	CHIP INDUCTOR	[M]
T501	RTP2N3C010	AC TRANSFORMER	[M] ⚠
T502	RTP1H3E002	BACK UP TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	
Z501	ERZV10V511CS	ZENER	[M] ⚠
Z601	RCDGP1UM272R	REMOTE SENSOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		RELAY	
RLY501	RSY0040M-0	PRIMARY RELAY	[M] ⚠
RLY502	RSY0017M-0	RELAY	[M]
		OSCILLATORS	
X451	RSXY8M00D01T	CERAMIC RESONATOR	[M]
X602	H2B400400013	OSCILLATOR	[M]
X801	RSXZ36M8M01T	RESONATOR	[M]
X802	RSXY8M00D01T	CERAMIC RESONATOR	[M]
X6501	H0J368500003	OSCILLATOR	[M]
		DISPLAY TUBE	
FL601	A2BB00000102	FL DISPLAY	[M]
FL4201	F1J1A1050021	CHIP FILTER	[M]
FL6251	F1J1A1050021	CHIP FILTER	[M]
FL6253	F1J1A1050021	CHIP FILTER	[M]
FL6254	F1J1A1050021	CHIP FILTER	[M]
FL6255	F1J1E1040022	CHIP FILTER	[M]
		FUSES	
F1	XBA1C50NBAL	FUSE	[M] ⚠
		FUSE HOLDERS	
FC501	EYF52BC	FUSE HOLDER	[M]
FC502	EYF52BC	FUSE HOLDER	[M]
		FUSE PROTECTOR	
FP549	RSFMB05KT-L	FUSE PROTECTOR	[M] ⚠
FP591	K5G402AA0002	FUSE PROTECTOR	[M] ⚠
FP702	K5G402AA0002	FUSE PROTECTOR	[M] ⚠
FP3202	K1MN17B00041	CONNECTOR	[M]
FP3203	K1MN15B00037	CONNECTOR	[M]
FP4202	K1MN26B00037	CONNECTOR	[M]
FP5001	K1MN30B00062	CONNECTOR	[M]
FP5002	K1MN50B00010	CONNECTOR	[M]
FP5003	K1MN04B00036	CONNECTOR	[M]
FP5201	K1MN50B00010	CONNECTOR	[M]
		HOLDERS	
H501	RJS1A5505	5P WIRE HOLDER	[M]
H503	RJS1A5512	12P WIRE HOLDER	[M]
H505	RMR0321	12P CABLE HOLDER	[M]
		JACKS	
JK101	K1U208B00002	JK VIDEO	[M]
JK102	RJH2307N-1	JK RCA PIN	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
JK103	RJH2213N	JK 2P RCA PIN	[M]
JK104	RJH2603N-5	JK 6 PIN RCA	[M]
JK500	K2AB2B000002	JK AC INLET	[M] ⚠
JK501	RJH5603-9	JK SPEAKER	[M]
JK502	RJH5603-10	JK SPEAKER TERMINAL	[M]
JK603	K2HB102J0038	JACK	[M]
		EARTH TERMINAL	
E501	SNE1004-2	EARTH TERMINAL	[M]
E502	SNE1004-2	EARTH TERMINAL	[M]
		WIRES	
W1	REE1042	1P PRI WIRES	[M]
W1	REZ1023-1	4P WIRE	[M]
W2	REE1043	1P PRI WIRES	[M]
W2	REZ1024	3P WIRE	[M]
W501	REX1037-J	5P WIRE	[M]
W503	REX1035	12P WIRE	[M]
W505	RWJ1112080RX	12P WIRE	[M]
W705	REX1036	2P WIRE	[M]
W904	REX1087	2P WIRE	[M]
W3001	ERJ3GEY0R00V	0 1/16W	[M]
		RESISTORS	
R1	ERDS2TJ102T	1K 1/4W	[M]
R1	ERJ3GEY0R00V	0 1/16W	[M]
R113	ERJ6ENF75R0V	75 1/10W	[M]
R114	ERJ6ENF75R0V	75 1/10W	[M]
R115	ERJ6ENF75R0V	75 1/10W	[M]
R118	ERJ6ENF75R0V	75 1/10W	[M]
R119	ERJ6ENF75R0V	75 1/10W	[M]
R120	ERJ6ENF75R0V	75 1/10W	[M]
R122	ERJ3GEYJ103V	10K 1/16W	[M]
R123	ERJ3GEYJ103V	10K 1/16W	[M]
R129	ERJ3GEYJ682V	6.8K 1/16W	[M]
R130	ERJ3GEYJ104V	100K 1/16W	[M]
R131	ERJ3GEYJ104V	100K 1/16W	[M]
R132	ERJ3GEYJ102V	1K 1/16W	[M]
R133	D0GB154JA002	150K 1/16W	[M]
R134	ERJ3GEYJ104V	100K 1/16W	[M]
R135	ERJ3GEYJ102V	1K 1/16W	[M]
R136	D0GB101JA002	100 1/16W	[M]
R137	D0GB562JA002	5.6K 1/16W	[M]
R138	D0GB273JA002	27K 1/16W	[M]
R139	D0GB562JA002	5.6K 1/16W	[M]
R140	D0GB273JA002	27K 1/16W	[M]
R141	D0GB101JA002	100 1/16W	[M]
R142	ERJ3GEYJ104V	100K 1/16W	[M]
R143	ERJ3GEYJ104V	100K 1/16W	[M]
R144	ERJ3GEYJ823V	82K 1/16W	[M]
R145	ERJ3GEYJ472V	4.7K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R146	D0GB183JA002	18K 1/16W	[M]
R147	ERJ3GEYJ104V	100K 1/16W	[M]
R148	ERJ3GEYJ102V	1K 1/16W	[M]
R149	ERJ3GEYJ102V	1K 1/16W	[M]
R150	ERJ6GEYJ102V	1K 1/10W	[M]
R153	ERJ3GEYJ473V	47K 1/16W	[M]
R154	ERJ3GEYJ102V	1K 1/16W	[M]
R155	ERJ3GEYJ222V	2.2K 1/16W	[M]
R156	ERJ3GEYJ222V	2.2K 1/16W	[M]
R157	ERJ3GEYJ102V	1K 1/16W	[M]
R158	ERJ3GEYJ104V	100K 1/16W	[M]
R159	ERJ3GEYJ473V	47K 1/16W	[M]
R160	ERJ3GEYJ102V	1K 1/16W	[M]
R161	ERJ3GEYJ222V	2.2K 1/16W	[M]
R162	ERJ3GEYJ102V	1K 1/16W	[M]
R163	ERJ3GEYJ681V	680 1/16W	[M]
R164	ERJ3GEYJ103V	10K 1/16W	[M]
R165	D0GB272JA002	2.7K 1/16W	[M]
R166	D0GB183JA002	18K 1/16W	[M]
R167	ERJ3GEYJ103V	10K 1/16W	[M]
R168	ERJ3GEYJ123V	12K 1/16W	[M]
R169	D0GB392JA002	3.9K 1/16W	[M]
R170	ERJ3GEYJ104V	100K 1/16W	[M]
R171	ERJ3GEYJ104V	100K 1/16W	[M]
R172	ERJ3GEYJ104V	100K 1/16W	[M]
R173	D0GB100JA002	10 1/16W	[M]
R181	ERJ3GEYJ473V	47K 1/16W	[M]
R182	ERJ3GEYJ473V	47K 1/16W	[M]
R183	D0GB563JA002	56K 1/16W	[M]
R184	D0GB563JA002	56K 1/16W	[M]
R186	D0GB332JA002	3.3K 1/16W	[M]
R187	D0GB332JA002	3.3K 1/16W	[M]
R188	ERJ3GEYJ222V	2.2K 1/16W	[M]
R189	ERJ3GEYJ103V	10K 1/16W	[M]
R190	ERJ3GEYJ103V	10K 1/16W	[M]
R196	ERJ3GEYJ123V	12K 1/16W	[M]
R197	D0GB392JA002	3.9K 1/16W	[M]
R198	ERJ3GEYJ123V	12K 1/16W	[M]
R199	D0GB392JA002	3.9K 1/16W	[M]
R200	ERJ3GEYJ102V	1K 1/16W	[M]
R201	D0GB392JA002	3.9K 1/16W	[M]
R203	D0GB183JA002	18K 1/16W	[M]
R204	ERJ3GEYJ102V	1K 1/16W	[M]
R205	D0GB392JA002	3.9K 1/16W	[M]
R207	D0GB183JA002	18K 1/16W	[M]
R209	D0GB1R8JA008	1.8 1/16W	[M]
R210	ERJ3GEYJ123V	12K 1/16W	[M]
R211	ERJ3GEYJ102V	1K 1/16W	[M]
R212	ERJ3GEYJ123V	12K 1/16W	[M]
R213	D0GB332JA002	3.3K 1/16W	[M]
R214	ERJ3GEYJ391V	390 1/16W	[M]
R215	ERJ3GEYJ222V	2.2K 1/16W	[M]
R216	ERJ3GEYJ222V	2.2K 1/16W	[M]
R217	ERJ3GEYJ472V	4.7K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R218	ERJ3GEYJ473V	47K 1/16W	[M]
R219	ERJ3GEYJ473V	47K 1/16W	[M]
R220	ERJ3GEYJ473V	47K 1/16W	[M]
R221	ERJ3GEYJ222V	2.2K 1/16W	[M]
R229	ERJ3GEYJ123V	12K 1/16W	[M]
R230	D0GB392JA002	3.9K 1/16W	[M]
R231	ERJ3GEYJ123V	12K 1/16W	[M]
R232	D0GB392JA002	3.9K 1/16W	[M]
R233	ERJ3GEYJ123V	12K 1/16W	[M]
R234	D0GB392JA002	3.9K 1/16W	[M]
R235	D0GB122JA019	1.2K 1/16W	[M]
R236	ERJ3GEYJ104V	100K 1/16W	[M]
R237	D0GB122JA019	1.2K 1/16W	[M]
R238	ERJ3GEYJ104V	100K 1/16W	[M]
R241	D0GB152JA002	1.5K 1/16W	[M]
R242	ERJ3GEYJ153V	15K 1/16W	[M]
R243	D0GB152JA002	1.5K 1/16W	[M]
R244	ERJ3GEYJ102V	1K 1/16W	[M]
R245	ERJ3GEYJ102V	1K 1/16W	[M]
R246	ERJ3GEYJ102V	1K 1/16W	[M]
R247	ERJ3GEYJ223V	22K 1/16W	[M]
R248	ERJ3GEYJ223V	22K 1/16W	[M]
R251	ERJ3GEYJ104V	100K 1/16W	[M]
R252	ERJ3GEYJ471V	470 1/16W	[M]
R253	ERJ3GEYJ471V	470 1/16W	[M]
R254	ERJ3GEYJ104V	100K 1/16W	[M]
R255	ERJ3GEYJ104V	100K 1/16W	[M]
R256	ERJ3GEYJ102V	1K 1/16W	[M]
R257	ERJ3GEYJ123V	12K 1/16W	[M]
R258	ERJ3GEYJ182V	1.8K 1/16W	[M]
R259	ERJ3GEYJ682V	6.8K 1/16W	[M]
R260	D0GB332JA002	3.3K 1/16W	[M]
R261	ERJ3GEYJ682V	6.8K 1/16W	[M]
R262	D0GB332JA002	3.3K 1/16W	[M]
R263	ERJ3GEYJ822V	8.2K 1/16W	[M]
R264	D0GB272JA002	2.7K 1/16W	[M]
R265	ERJ3GEYJ103V	10K 1/16W	[M]
R266	ERJ3GEYJ103V	10K 1/16W	[M]
R267	ERJ3GEYJ104V	100K 1/16W	[M]
R268	ERJ3GEYJ104V	100K 1/16W	[M]
R269	ERJ3GEYJ223V	22K 1/16W	[M]
R270	ERJ3GEYJ223V	22K 1/16W	[M]
R271	D0GB183JA002	18K 1/16W	[M]
R272	D0GB183JA002	18K 1/16W	[M]
R273	ERJ3GEYJ102V	1K 1/16W	[M]
R274	ERJ3GEYJ102V	1K 1/16W	[M]
R275	D0GB154JA002	150K 1/16W	[M]
R276	D0GB154JA002	150K 1/16W	[M]
R277	ERJ3GEYJ103V	10K 1/16W	[M]
R278	ERJ3GEYJ103V	10K 1/16W	[M]
R279	ERJ3GEYJ104V	100K 1/16W	[M]
R280	ERJ3GEYJ104V	100K 1/16W	[M]
R281	ERJ3GEYJ223V	22K 1/16W	[M]
R282	ERJ3GEYJ223V	22K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R283	D0GB183JA002	18K 1/16W	[M]
R284	D0GB183JA002	18K 1/16W	[M]
R285	ERJ3GEYJ102V	1K 1/16W	[M]
R286	ERJ3GEYJ102V	1K 1/16W	[M]
R287	ERJ3GEYJ103V	10K 1/16W	[M]
R288	ERJ3GEYJ103V	10K 1/16W	[M]
R289	ERJ3GEYJ104V	100K 1/16W	[M]
R290	ERJ3GEYJ104V	100K 1/16W	[M]
R291	ERJ3GEYJ223V	22K 1/16W	[M]
R292	ERJ3GEYJ223V	22K 1/16W	[M]
R293	D0GB183JA002	18K 1/16W	[M]
R294	D0GB273JA002	27K 1/16W	[M]
R295	ERJ3GEYJ102V	1K 1/16W	[M]
R296	ERJ3GEYJ102V	1K 1/16W	[M]
R297	ERJ3GEYJ102V	1K 1/16W	[M]
R298	ERJ3GEYJ102V	1K 1/16W	[M]
R299	ERJ3GEYJ102V	1K 1/16W	[M]
R300	ERJ3GEYJ102V	1K 1/16W	[M]
R301	ERJ3GEYJ102V	1K 1/16W	[M]
R302	ERJ3GEYJ102V	1K 1/16W	[M]
R303	ERJ3GEYJ473V	47K 1/16W	[M]
R304	ERJ3GEYJ473V	47K 1/16W	[M]
R305	ERJ3GEYJ473V	47K 1/16W	[M]
R306	ERJ3GEYJ473V	47K 1/16W	[M]
R307	ERJ3GEYJ473V	47K 1/16W	[M]
R308	ERJ3GEYJ473V	47K 1/16W	[M]
R319	ERJ3GEYJ102V	1K 1/16W	[M]
R321	ERJ3GEYJ223V	22K 1/16W	[M]
R401	ERDS2TJ822T	8.2K 1/4W	[M]
R402	ERDS2TJ823T	82K 1/4W	[M]
R403	ERDS2TJ102T	1K 1/4W	[M]
R404	ERDS2TJ103T	10K 1/4W	[M]
R405	ERDS2TJ104T	100K 1/4W	[M]
R406	ERDS2TJ104T	100K 1/4W	[M]
R407	ERDS2TJ102T	1K 1/4W	[M]
R408	ERDS2TJ102T	1K 1/4W	[M]
R409	ERDS2TJ332T	3.3K 1/4W	[M]
R410	ERDS2TJ332T	3.3K 1/4W	[M]
R411	ERDS2TJ332T	3.3K 1/4W	[M]
R412	ERDS2TJ332T	3.3K 1/4W	[M]
R413	ERDS2TJ683T	68K 1/4W	[M]
R414	ERDS2TJ683T	68K 1/4W	[M]
R415	ERDS2TJ390T	39 1/4W	[M]
R416	ERDS2TJ390T	39 1/4W	[M]
R417	ERDS2TJ390T	39 1/4W	[M]
R418	ERDS2TJ390T	39 1/4W	[M]
R419	ERDS2TJ154T	150K 1/4W	[M]
R420	ERDS2TJ101T	100 1/4W	[M]
R421	ERDS2TJ101T	100 1/4W	[M]
R423	ERDS2TJ124T	120K 1/4W	[M]
R424	ERDS2TJ102T	1K 1/4W	[M]
R425	ERDS2TJ272T	2.7K 1/4W	[M]
R426	ERDS2TJ102T	1K 1/4W	[M]
R427	ERDS2TJ123T	12K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R428	ERDS2TJ332T	3.3K 1/4W	[M]
R429	ERDS2TJ102T	1K 1/4W	[M]
R430	ERDS2TJ333T	33K 1/4W	[M]
R431	ERDS2TJ183T	18K 1/4W	[M]
R432	ERDS2TJ683T	68K 1/4W	[M]
R433	ERDS2TJ683T	68K 1/4W	[M]
R434	ERDS2TJ153T	15K 1/4W	[M]
R435	ERDS2TJ274T	270K 1/4W	[M]
R436	ERDS2TJ823T	82K 1/4W	[M]
R437	ERDS2TJ823T	82K 1/4W	[M]
R438	ERDS2TJ822T	8.2K 1/4W	[M]
R439	ERDS2TJ153T	15K 1/4W	[M]
R440	ERDS2TJ153T	15K 1/4W	[M]
R441	ERDS2TJ393T	39K 1/4W	[M]
R442	ERDS2TJ393T	39K 1/4W	[M]
R443	ERDS2TJ102T	1K 1/4W	[M]
R444	ERDS2TJ103T	10K 1/4W	[M]
R445	ERDS2TJ222T	2.2K 1/4W	[M]
R446	ERDS2TJ102T	1K 1/4W	[M]
R447	ERDS2TJ104T	100K 1/4W	[M]
R448	ERDS2TJ154T	150K 1/4W	[M]
R449	ERDS2TJ100T	10 1/4W	[M]
R450	ERDS2TJ100T	10 1/4W	[M]
R452	ERJ3GEYJ103V	10K 1/16W	[M]
R453	D0GB821JA002	820 1/16W	[M]
R454	ERJ3GEYJ103V	10K 1/16W	[M]
R455	ERJ3GEYJ221V	220 1/16W	[M]
R456	ERJ3GEYJ221V	220 1/16W	[M]
R457	ERJ3GEYJ221V	220 1/16W	[M]
R458	ERJ3GEYJ221V	220 1/16W	[M]
R459	ERJ3GEYJ221V	220 1/16W	[M]
R460	ERJ3GEYJ681V	680 1/16W	[M]
R461	ERJ3GEYJ102V	1K 1/16W	[M]
R462	ERJ3GEYJ221V	220 1/16W	[M]
R463	ERJ3GEYJ103V	10K 1/16W	[M]
R464	ERJ3GEYJ104V	100K 1/16W	[M]
R465	ERJ3GEYJ472V	4.7K 1/16W	[M]
R466	ERJ3GEYJ473V	47K 1/16W	[M]
R467	ERJ3GEYJ472V	4.7K 1/16W	[M]
R468	ERJ3GEYJ472V	4.7K 1/16W	[M]
R469	ERJ3GEYJ472V	4.7K 1/16W	[M]
R470	ERJ3GEYJ472V	4.7K 1/16W	[M]
R471	ERJ3GEYJ221V	220 1/16W	[M]
R472	ERJ3GEYJ221V	220 1/16W	[M]
R473	ERJ3GEYJ221V	220 1/16W	[M]
R474	ERJ3GEYJ221V	220 1/16W	[M]
R475	ERJ3GEYJ103V	10K 1/16W	[M]
R476	ERJ3GEYJ221V	220 1/16W	[M]
R478	ERJ3GEYJ472V	4.7K 1/16W	[M]
R479	ERJ3GEYJ104V	100K 1/16W	[M]
R480	ERJ3GEYJ103V	10K 1/16W	[M]
R481	ERJ3GEYJ103V	10K 1/16W	[M]
R482	ERJ3GEYJ103V	10K 1/16W	[M]
R483	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R484	ERJ3GEYJ102V	1K 1/16W	[M]
R485	ERJ3GEYJ472V	4.7K 1/16W	[M]
R486	ERJ3GEYJ472V	4.7K 1/16W	[M]
R487	ERJ3GEYJ103V	10K 1/16W	[M]
R491	ERJ3GEYJ221V	220 1/16W	[M]
R492	ERJ3GEYJ221V	220 1/16W	[M]
R500	ERC12UGK335D	3.3M 1/2W	[M] ⚠
R501	ERDS2TJ472T	4.7K 1/4W	[M]
R502	ERDS2TJ472T	4.7K 1/4W	[M]
R503	ERDS2TJ153T	15K 1/4W	[M]
R504	ERDS2TJ153T	15K 1/4W	[M]
R505	ERDS2TJ153T	15K 1/4W	[M]
R506	ERDS2TJ153T	15K 1/4W	[M]
R507	ERDS2TJ472T	4.7K 1/4W	[M]
R508	ERDS2TJ472T	4.7K 1/4W	[M]
R509	ERDS2TJ392T	3.9K 1/4W	[M]
R510	ERDS2TJ472T	4.7K 1/4W	[M]
R511	ERDS2TJ153T	15K 1/4W	[M]
R512	ERDS2TJ153T	15K 1/4W	[M]
R513	ERDS2TJ563T	56K 1/4W	[M]
R514	ERDS2TJ563T	56K 1/4W	[M]
R515	ERDS2TJ563T	56K 1/4W	[M]
R516	ERDS2TJ563T	56K 1/4W	[M]
R517	ERDS2TJ563T	56K 1/4W	[M]
R518	ERDS2TJ563T	56K 1/4W	[M]
R519	ERDS2TJ474T	470K 1/4W	[M]
R520	ERDS2TJ223T	22K 1/4W	[M]
R521	ERDS2TJ223T	22K 1/4W	[M]
R522	ERDS2TJ103T	10K 1/4W	[M]
R523	ERDS2TJ124T	120K 1/4W	[M]
R524	ERDS2TJ104T	100K 1/4W	[M]
R525	ERDS2TJ563T	56K 1/4W	[M]
R526	ERDS2TJ473T	47K 1/4W	[M]
R527	ERDS2TJ184T	180K 1/4W	[M]
R528	ERDS2TJ154T	150K 1/4W	[M]
R529	ERDS2TJ223T	22K 1/4W	[M]
R530	ERDS1FVJ100T	10 1/2W	[M]
R531	ERDS1FVJ100T	10 1/2W	[M]
R532	ERDS2TJ183T	18K 1/4W	[M]
R533	ERDS2TJ153T	15K 1/4W	[M]
R535	ERDS2TJ390T	39 1/4W	[M]
R536	ERDS2TJ390T	39 1/4W	[M]
R537	ERDS2TJ390T	39 1/4W	[M]
R538	ERDS2TJ223T	22K 1/4W	[M]
R539	ERDS1FVJ100T	10 1/2W	[M]
R540	ERDS1FVJ100T	10 1/2W	[M]
R541	ERDS1FVJ100T	10 1/2W	[M]
R542	ERDS1FVJ100T	10 1/2W	[M]
R543	ERDS2TJ2R2T	2.2 1/4W	[M]
R544	ERDS2TJ2R2T	2.2 1/4W	[M]
R545	ERDS2TJ184T	180K 1/4W	[M]
R546	ERDS2TJ224T	220K 1/4W	[M]
R547	ERDS2TJ222T	2.2K 1/4W	[M]
R548	ERDS2TJ104T	100K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R550	ERDS1FVJ2R2T	2.2 1/2W	[M]
R554	ERDS2TJ153T	15K 1/4W	[M]
R555	ERDS2TJ392T	3.9K 1/4W	[M]
R556	ERDS2TJ152T	1.5K 1/4W	[M]
R557	ERDS2TJ332T	3.3K 1/4W	[M]
R558	ERDS2TJ152T	1.5K 1/4W	[M]
R559	ERDS1FVJ2R2T	2.2 1/2W	[M]
R560	ERDS2TJ472T	4.7K 1/4W	[M]
R561	ERDS2TJ151T	150 1/4W	[M]
R562	ERDS2TJ220T	22 1/4W	[M]
R563	ERDS2TJ220T	22 1/4W	[M]
R564	ERDS2TJ332T	3.3K 1/4W	[M]
R565	ERDS2TJ472T	4.7K 1/4W	[M]
R566	ERDS2TJ473T	47K 1/4W	[M]
R567	ERDS2TJ683T	68K 1/4W	[M]
R568	ERDS2TJ224T	220K 1/4W	[M]
R569	ERDS2TJ472T	4.7K 1/4W	[M]
R570	ERDS2TJ103T	10K 1/4W	[M]
R571	ERDS2TJ393T	39K 1/4W	[M]
R572	ERDS2TJ223T	22K 1/4W	[M]
R573	ERDS2TJ474T	470K 1/4W	[M]
R574	ERDS2TJ224T	220K 1/4W	[M]
R575	ERDS2TJ563T	56K 1/4W	[M]
R576	ERDS2TJ824T	820K 1/4W	[M]
R577	ERDS2TJ103T	10K 1/4W	[M]
R578	ERDS2TJ824T	820K 1/4W	[M]
R579	ERDS2TJ562T	5.6K 1/4W	[M]
R580	ERDS2TJ472T	4.7K 1/4W	[M]
R581	ERDS2TJ103T	10K 1/4W	[M]
R582	ERDS1FVJ180T	18 1/2W	[M]
R583	ERDS2TJ224T	220K 1/4W	[M]
R584	ERDS2TJ101T	100 1/4W	[M]
R585	ERDS2TJ563T	56K 1/4W	[M]
R586	ERDS2TJ103T	10K 1/4W	[M]
R589	ERDS2TJ103T	10K 1/4W	[M]
R590	ERDS2TJ223T	22K 1/4W	[M]
R593	ERDS2TJ103T	10K 1/4W	[M]
R594	ERDS2TJ103T	10K 1/4W	[M]
R596	ERDS2TJ151T	150 1/4W	[M]
R597	ERDS2TJ102T	1K 1/4W	[M]
R599	ERDS2TJ103T	10K 1/4W	[M]
R601	ERJ3GEYJ104V	100K 1/16W	[M]
R602	D0GB101JA002	100 1/16W	[M]
R603	D0GB101JA002	100 1/16W	[M]
R604	ERJ3GEYJ104V	100K 1/16W	[M]
R605	ERJ3GEYJ103V	10K 1/16W	[M]
R606	ERJ3GEYJ103V	10K 1/16W	[M]
R607	ERJ3GEYJ224V	220K 1/16W	[M]
R608	ERJ3GEYJ102V	1K 1/16W	[M]
R609	D0GB101JA002	100 1/16W	[M]
R610	D0GB101JA002	100 1/16W	[M]
R611	D0GB101JA002	100 1/16W	[M]
R612	D0GB101JA002	100 1/16W	[M]
R613	D0GB101JA002	100 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R614	D0GB101JA002	100 1/16W	[M]
R615	D0GB101JA002	100 1/16W	[M]
R616	D0GB101JA002	100 1/16W	[M]
R617	D0GB101JA002	100 1/16W	[M]
R618	D0GB101JA002	100 1/16W	[M]
R619	ERJ3GEYJ103V	10K 1/16W	[M]
R620	ERJ3GEYJ103V	10K 1/16W	[M]
R621	D0GB821JA002	820 1/16W	[M]
R622	D0GB101JA002	100 1/16W	[M]
R623	ERJ3GEYJ222V	2.2K 1/16W	[M]
R624	ERJ3GEYJ223V	22K 1/16W	[M]
R625	ERJ3GEYJ223V	22K 1/16W	[M]
R627	ERJ3GEYJ104V	100K 1/16W	[M]
R628	ERJ3GEYJ472V	4.7K 1/16W	[M]
R629	ERJ3GEYJ221V	220 1/16W	[M]
R630	D0GB101JA002	100 1/16W	[M]
R631	D0GB101JA002	100 1/16W	[M]
R632	ERJ3GEYJ223V	22K 1/16W	[M]
R633	ERJ3GEYJ102V	1K 1/16W	[M]
R636	ERJ3GEYJ331V	330 1/16W	[M]
R637	ERJ3GEYJ473V	47K 1/16W	[M]
R638	ERJ3GEYJ223V	22K 1/16W	[M]
R639	ERJ3GEYJ473V	47K 1/16W	[M]
R640	D0GB101JA002	100 1/16W	[M]
R641	D0GB101JA002	100 1/16W	[M]
R642	D0GB101JA002	100 1/16W	[M]
R643	D0GB101JA002	100 1/16W	[M]
R644	D0GB101JA002	100 1/16W	[M]
R645	D0GB101JA002	100 1/16W	[M]
R646	D0GB101JA002	100 1/16W	[M]
R647	D0GB101JA002	100 1/16W	[M]
R648	ERJ3GEYJ221V	220 1/16W	[M]
R649	ERJ3GEYJ102V	1K 1/16W	[M]
R650	ERJ3GEYJ223V	22K 1/16W	[M]
R651	ERJ3GEYJ681V	680 1/16W	[M]
R652	ERJ3GEYJ473V	47K 1/16W	[M]
R653	ERJ3GEYJ473V	47K 1/16W	[M]
R654	ERJ3GEYJ104V	100K 1/16W	[M]
R657	D0GB680JA019	68 1/16W	[M]
R658	D0GB680JA019	68 1/16W	[M]
R661	D0GB101JA002	100 1/16W	[M]
R663	ERJ3GEYJ331V	330 1/16W	[M]
R664	D0GB821JA002	820 1/16W	[M]
R665	ERJ3GEYJ221V	220 1/16W	[M]
R666	ERJ3GEYJ221V	220 1/16W	[M]
R667	ERJ3GEYJ221V	220 1/16W	[M]
R668	ERJ3GEYJ221V	220 1/16W	[M]
R669	ERJ3GEYJ221V	220 1/16W	[M]
R671	ERJ3GEYJ104V	100K 1/16W	[M]
R672	ERJ3GEYJ104V	100K 1/16W	[M]
R673	ERJ3GEYJ104V	100K 1/16W	[M]
R674	ERJ3GEYJ104V	100K 1/16W	[M]
R675	ERJ3GEYJ104V	100K 1/16W	[M]
R676	ERJ3GEYJ104V	100K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R677	ERJ3GEYJ104V	100K 1/16W	[M]
R678	ERJ3GEYJ104V	100K 1/16W	[M]
R683	ERJ3GEYJ472V	4.7K 1/16W	[M]
R684	ERJ3GEYJ102V	1K 1/16W	[M]
R685	ERJ3GEYJ102V	1K 1/16W	[M]
R686	D0GB122JA019	1.2K 1/16W	[M]
R687	ERJ3GEYJ182V	1.8K 1/16W	[M]
R688	ERJ3GEYJ222V	2.2K 1/16W	[M]
R689	D0GB272JA002	2.7K 1/16W	[M]
R690	ERJ3GEYJ472V	4.7K 1/16W	[M]
R691	ERJ3GEYJ682V	6.8K 1/16W	[M]
R692	ERJ3GEYJ103V	10K 1/16W	[M]
R693	ERJ3GEYJ472V	4.7K 1/16W	[M]
R703	ERJ3GEYJ472V	4.7K 1/16W	[M]
R704	ERJ3GEYJ331V	330 1/16W	[M]
R705	ERJ3GEYJ104V	100K 1/16W	[M]
R707	D0GB821JA002	820 1/16W	[M]
R708	ERJ3GEYJ223V	22K 1/16W	[M]
R709	ERJ3GEYJ561V	560 1/16W	[M]
R710	ERJ3GEYJ561V	560 1/16W	[M]
R711	D0GB1R0JA002	1 1/16W	[M]
R712	D0GB1R0JA002	1 1/16W	[M]
R713	D0GB1R0JA002	1 1/16W	[M]
R714	D0GB1R0JA002	1 1/16W	[M]
R715	D0GB1R0JA002	1 1/16W	[M]
R716	D0GB1R0JA002	1 1/16W	[M]
R717	ERJ3GEYJ223V	22K 1/16W	[M]
R718	ERJ3GEYJ102V	1K 1/16W	[M]
R719	ERJ3GEYJ822V	8.2K 1/16W	[M]
R720	ERJ3GEYJ222V	2.2K 1/16W	[M]
R727	D0GB334JA002	330K 1/16W	[M]
R728	ERJ3GEYJ472V	4.7K 1/16W	[M]
R729	ERJ3GEYJ681V	680 1/16W	[M]
R730	D0GB154JA002	150K 1/16W	[M]
R731	ERJ3GEYJ472V	4.7K 1/16W	[M]
R732	ERJ3GEYJ681V	680 1/16W	[M]
R740	ERJ3GEYJ222V	2.2K 1/16W	[M]
R741	ERJ3GEYJ222V	2.2K 1/16W	[M]
R742	ERJ3GEYJ102V	1K 1/16W	[M]
R835	D0GB183JA002	18K 1/16W	[M]
R838	ERJ3GEYJ103V	10K 1/16W	[M]
R839	ERJ3GEYJ103V	10K 1/16W	[M]
R840	ERJ3GEYJ102V	1K 1/16W	[M]
R841	ERJ3GEYJ104V	100K 1/16W	[M]
R843	ERJ3GEYJ223V	22K 1/16W	[M]
R844	ERJ3GEYJ104V	100K 1/16W	[M]
R847	ERJ3GEYJ472V	4.7K 1/16W	[M]
R848	ERJ3GEYJ221V	220 1/16W	[M]
R849	D0GB105JA002	1M 1/16W	[M]
R850	D0GB271JA002	270 1/16W	[M]
R851	D0GB271JA002	270 1/16W	[M]
R852	ERJ3GEYJ561V	560 1/16W	[M]
R853	ERJ3GEYJ561V	560 1/16W	[M]
R856	D0GB333JA002	33K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R857	ERJ3GEYJ223V	22K 1/16W	[M]
R858	D0GB333JA002	33K 1/16W	[M]
R859	ERJ3GEYJ102V	1K 1/16W	[M]
R860	D0GB183JA002	18K 1/16W	[M]
R861	ERJ3GEYJ222V	2.2K 1/16W	[M]
R862	ERJ3GEYJ222V	2.2K 1/16W	[M]
R863	ERJ3GEYJ472V	4.7K 1/16W	[M]
R864	D0GB563JA002	56K 1/16W	[M]
R865	ERJ3GEYJ103V	10K 1/16W	[M]
R866	ERJ3GEYJ221V	220 1/16W	[M]
R867	ERJ3GEYJ221V	220 1/16W	[M]
R868	ERJ3GEYJ103V	10K 1/16W	[M]
R869	ERJ3GEYJ221V	220 1/16W	[M]
R870	ERJ3GEYJ681V	680 1/16W	[M]
R871	ERJ3GEYJ331V	330 1/16W	[M]
R872	ERJ3GEYJ104V	100K 1/16W	[M]
R873	ERJ3GEYJ472V	4.7K 1/16W	[M]
R874	ERJ3GEYJ472V	4.7K 1/16W	[M]
R875	ERJ3GEYJ104V	100K 1/16W	[M]
R876	ERJ3GEYJ102V	1K 1/16W	[M]
R877	ERJ3GEYJ102V	1K 1/16W	[M]
R878	ERJ3GEYJ102V	1K 1/16W	[M]
R879	ERJ3GEYJ102V	1K 1/16W	[M]
R880	ERJ3GEYJ102V	1K 1/16W	[M]
R881	ERJ3GEYJ102V	1K 1/16W	[M]
R882	ERJ3GEYJ102V	1K 1/16W	[M]
R883	ERJ3GEYJ470V	47 1/16W	[M]
R885	ERJ3GEYJ472V	4.7K 1/16W	[M]
R887	ERJ3GEYJ331V	330 1/16W	[M]
R888	D0GB1R0JA002	1 1/16W	[M]
R889	D0GB1R0JA002	1 1/16W	[M]
R890	ERJ3GEYJ472V	4.7K 1/16W	[M]
R891	D0GB124JA002	120K 1/16W	[M]
R892	D0GB122JA019	1.2K 1/16W	[M]
R893	ERJ3GEYJ472V	4.7K 1/16W	[M]
R894	ERJ3GEYJ472V	4.7K 1/16W	[M]
R895	ERJ3GEYJ823V	82K 1/16W	[M]
R896	D0GB122JA019	1.2K 1/16W	[M]
R897	ERJ3GEYJ331V	330 1/16W	[M]
R898	ERJ3GEYJ102V	1K 1/16W	[M]
R899	ERJ3GEYJ102V	1K 1/16W	[M]
R900	ERJ3GEYJ102V	1K 1/16W	[M]
R901	ERJ3GEYJ102V	1K 1/16W	[M]
R902	ERJ3GEYJ104V	100K 1/16W	[M]
R903	ERJ3GEYJ472V	4.7K 1/16W	[M]
R904	ERJ3GEYJ331V	330 1/16W	[M]
R905	ERJ3GEYJ331V	330 1/16W	[M]
R906	ERJ3GEYJ331V	330 1/16W	[M]
R907	D0GB563JA002	56K 1/16W	[M]
R908	ERJ3GEYJ822V	8.2K 1/16W	[M]
R909	ERJ3GEYJ822V	8.2K 1/16W	[M]
R910	ERJ3GEYJ822V	8.2K 1/16W	[M]
R911	ERJ3GEYJ822V	8.2K 1/16W	[M]
R912	ERJ3GEYJ102V	1K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R913	ERJ3GEYJ102V	1K 1/16W	[M]
R914	ERJ3GEYJ473V	47K 1/16W	[M]
R915	ERJ3GEYJ473V	47K 1/16W	[M]
R916	ERJ3GEYJ104V	100K 1/16W	[M]
R917	ERJ3GEYJ104V	100K 1/16W	[M]
R918	ERJ3GEYJ331V	330 1/16W	[M]
R919	ERJ3GEYJ331V	330 1/16W	[M]
R920	ERJ3GEYJ472V	4.7K 1/16W	[M]
R921	ERJ3GEYJ472V	4.7K 1/16W	[M]
R922	ERJ3GEYJ102V	1K 1/16W	[M]
R923	D0GB122JA019	1.2K 1/16W	[M]
R924	D0GB122JA019	1.2K 1/16W	[M]
R925	ERJ3GEYJ123V	12K 1/16W	[M]
R926	ERJ3GEYJ123V	12K 1/16W	[M]
R927	ERJ3GEYJ123V	12K 1/16W	[M]
R928	D0GB392JA002	3.9K 1/16W	[M]
R929	ERJ3GEYJ682V	6.8K 1/16W	[M]
R930	ERJ3GEYJ682V	6.8K 1/16W	[M]
R931	ERJ3GEYJ123V	12K 1/16W	[M]
R932	D0GB392JA002	3.9K 1/16W	[M]
R933	ERJ3GEYJ682V	6.8K 1/16W	[M]
R934	ERJ3GEYJ682V	6.8K 1/16W	[M]
R936	ERJ3GEYJ103V	10K 1/16W	[M]
R937	ERJ3GEYJ102V	1K 1/16W	[M]
R938	ERJ3GEYJ102V	1K 1/16W	[M]
R939	ERJ3GEYJ473V	47K 1/16W	[M]
R940	ERJ3GEYJ473V	47K 1/16W	[M]
R941	ERJ3GEYJ102V	1K 1/16W	[M]
R942	ERJ3GEYJ102V	1K 1/16W	[M]
R955	ERJ3GEYJ223V	22K 1/16W	[M]
R956	ERJ3GEYJ223V	22K 1/16W	[M]
R2020	D0GB183JA002	18K 1/16W	[M]
R2021	ERJ3GEYJ473V	47K 1/16W	[M]
R2022	D0GB752JA008	7.5K 1/16W	[M]
R2023	D0GB752JA008	7.5K 1/16W	[M]
R2025	ERJ3GEYJ223V	22K 1/16W	[M]
R2026	ERJ3GEYJ223V	22K 1/16W	[M]
R2027	D0GB563JA002	56K 1/16W	[M]
R2028	D0GB563JA002	56K 1/16W	[M]
R2029	ERJ3GEYJ102V	1K 1/16W	[M]
R2030	ERJ3GEYJ102V	1K 1/16W	[M]
R2031	ERJ3GEYJ561V	560 1/16W	[M]
R2032	ERJ3GEYJ103V	10K 1/16W	[M]
R2033	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2034	ERJ3GEYJ473V	47K 1/16W	[M]
R2035	D0GB272JA002	2.7K 1/16W	[M]
R2036	ERJ3GEY0R00V	0 1/16W	[M]
R2037	D0GB683JA002	68K 1/16W	[M]
R2038	ERJ3GEYJ153V	15K 1/16W	[M]
R2039	D0GB105JA002	1M 1/16W	[M]
R2040	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2041	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2042	ERJ3GEYJ153V	15K 1/16W	[M]
R2043	ERJ3GEYJ153V	15K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2044	ERJ3GEYJ153V	15K 1/16W	[M]
R2045	ERJ3GEYJ153V	15K 1/16W	[M]
R2046	ERJ3GEYJ153V	15K 1/16W	[M]
R2047	ERJ3GEYJ153V	15K 1/16W	[M]
R2048	D0GB475JA008	4.7M 1/16W	[M]
R2049	ERJ3GEYJ102V	1K 1/16W	[M]
R2053	ERJ3GEYJ473V	47K 1/16W	[M]
R2054	ERJ3GEYJ473V	47K 1/16W	[M]
R2504	D0GB101JA002	100 1/16W	[M]
R2505	D0GB101JA002	100 1/16W	[M]
R3001	D0GB220JA002	22 1/16W	[M]
R3002	ERJ3GEYJ473V	47K 1/16W	[M]
R3006	ERJ3GEY0R00V	0 1/16W	[M]
R3007	ERJ3GEY0R00V	0 1/16W	[M]
R3031	D0GB101JA002	100 1/16W	[M]
R3061	D0GB101JA002	100 1/16W	[M]
R3080	ERJ3RBD752V	7.5K 3W	[M]
R3082	ERJ3RBD202V	2K 3W	[M]
R3083	ERJ3RBD132V	1.3K 3W	[M]
R3084	ERJ3RBD752V	7.5K 3W	[M]
R3085	ERJ3RBD183V	18K 3W	[M]
R3086	ERJ3RBD432V	4.3K 3W	[M]
R3087	ERJ3RBD752V	7.5K 3W	[M]
R3088	ERJ3RBD752V	7.5K 3W	[M]
R3089	ERJ3RBD752V	7.5K 3W	[M]
R3090	ERJ3RBD272V	2.7K 3W	[M]
R3101	ERJ3RED750V	75 3W	[M]
R3102	ERJ3GEYJ330V	33 1/16W	[M]
R3103	ERJ3GEYJ102V	1K 1/16W	[M]
R3106	ERJ3RED750V	75 3W	[M]
R3107	ERJ3GEYJ330V	33 1/16W	[M]
R3108	ERJ3GEYJ102V	1K 1/16W	[M]
R3111	ERJ3RED750V	75 3W	[M]
R3112	ERJ3GEYJ330V	33 1/16W	[M]
R3113	ERJ3GEYJ102V	1K 1/16W	[M]
R3116	ERJ3RED750V	75 3W	[M]
R3117	ERJ3GEYJ330V	33 1/16W	[M]
R3118	ERJ3GEYJ102V	1K 1/16W	[M]
R3261	ERJ3GEYJ103V	10K 1/16W	[M]
R3701	ERJ3GEYJ220V	22 1/16W	[M]
R3702	ERJ3GEYJ220V	22 1/16W	[M]
R3751	ERJ3RBD222V	2.2K 3W	[M]
R3752	ERJ3RBD102V	1K 3W	[M]
R3753	ERJ3RBD102V	1K 3W	[M]
R3761	ERJ3RBD221V	220 3W	[M]
R3762	ERJ3GEYJ330V	33 1/16W	[M]
R3763	ERJ3GEYJ102V	1K 1/16W	[M]
R3766	ERJ3RBD221V	220 3W	[M]
R3767	ERJ3GEYJ330V	33 1/16W	[M]
R3768	ERJ3GEYJ102V	1K 1/16W	[M]
R3771	ERJ3RBD221V	220 3W	[M]
R3772	ERJ3GEYJ330V	33 1/16W	[M]
R3773	ERJ3GEYJ102V	1K 1/16W	[M]
R4201	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R4204	ERJ3GEYJ102V	1K 1/16W	[M]
R4211	D0GB101JA002	100 1/16W	[M]
R5001	D0GB560JA002	56 1/16W	[M]
R5002	D0GB560JA002	56 1/16W	[M]
R5211	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R5212	ERJ12YJ270H	27 1/2W	[M]
R5213	ERJ3GEYJ473V	47K 1/16W	[M]
R5214	ERJ3GEYJ223V	22K 1/16W	[M]
R5215	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R5216	ERJ12YJ270H	27 1/2W	[M]
R5217	ERJ3GEYJ473V	47K 1/16W	[M]
R5221	ERJ3GEY0R00V	0 1/16W	[M]
R5222	ERJ3GEYJ472V	4.7K 1/16W	[M]
R5231	ERJ3GEYJ822V	8.2K 1/16W	[M]
R5232	ERJ3GEYJ822V	8.2K 1/16W	[M]
R5233	ERJ3GEYJ102V	1K 1/16W	[M]
R5241	ERJ3GEYJ221V	220 1/16W	[M]
R5242	ERJ3GEYJ823V	82K 1/16W	[M]
R5256	ERJ3GEYF223V	22K 1/16W	[M]
R5257	ERJ3GEYJ182V	1.8K 1/16W	[M]
R5258	ERJ3GEYJ222V	2.2K 1/16W	[M]
R5261	ERJ3GEYJ561V	560 1/16W	[M]
R5262	ERJ3GEYJ561V	560 1/16W	[M]
R5263	ERJ3GEYJ473V	47K 1/16W	[M]
R5264	ERJ3GEYJ103V	10K 1/16W	[M]
R5265	ERJ3GEYJ104V	100K 1/16W	[M]
R5266	D0GB563JA002	56K 1/16W	[M]
R5267	D0GB334JA002	330K 1/16W	[M]
R5268	ERJ3GEYJ102V	1K 1/16W	[M]
R5269	ERJ3GEYJ104V	100K 1/16W	[M]
R5270	D0GB273JA002	27K 1/16W	[M]
R5271	ERJ3GEY0R00V	0 1/16W	[M]
R5272	ERJ3GEY0R00V	0 1/16W	[M]
R5281	D0GB105JA002	1M 1/16W	[M]
R5282	D0GB105JA002	1M 1/16W	[M]
R5286	D0GB680JA019	68 1/16W	[M]
R5287	D0GB680JA019	68 1/16W	[M]
R5288	D0GB562JA002	5.6K 1/16W	[M]
R5289	ERJ3GEYJ472V	4.7K 1/16W	[M]
R5290	D0GB562JA002	5.6K 1/16W	[M]
R5291	ERJ3GEYJ472V	4.7K 1/16W	[M]
R5292	D0GB562JA002	5.6K 1/16W	[M]
R5293	ERJ3GEYJ472V	4.7K 1/16W	[M]
R5294	D0GB562JA002	5.6K 1/16W	[M]
R5295	ERJ3GEYJ472V	4.7K 1/16W	[M]
R5297	D0GB101JA002	100 1/16W	[M]
R5305	ERJ3GEY0R00V	0 1/16W	[M]
R6201	ERJ3GEYJ473V	47K 1/16W	[M]
R6202	ERJ3GEYJ103V	10K 1/16W	[M]
R6203	ERJ3GEYJ103V	10K 1/16W	[M]
R6204	ERJ3GEYJ103V	10K 1/16W	[M]
R6205	ERJ3GEYJ103V	10K 1/16W	[M]
R6206	ERJ3GEYJ102V	1K 1/16W	[M]
R6207	ERJ3GEYJ473V	47K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R6211	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6215	ERJ3GEYJ103V	10K 1/16W	[M]
R6216	ERJ3GEYJ102V	1K 1/16W	[M]
R6512	ERJ3RBD331V	330 3W	[M]
R6513	ERJ3GEYJ103V	10K 1/16W	[M]
R6514	ERJ3GEYJ470V	47 1/16W	[M]
R6515	D0GB100JA002	10 1/16W	[M]
R6801	ERJ3GEYJ473V	47K 1/16W	[M]
K3002	ERJ3GEY0R00V	0 1/16W	[M]
K3003	ERJ3GEY0R00V	0 1/16W	[M]
K3201	ERJ3GEY0R00V	0 1/16W	[M]
K3303	ERJ3GEY0R00V	0 1/16W	[M]
K3304	ERJ3GEY0R00V	0 1/16W	[M]
K3305	ERJ3GEY0R00V	0 1/16W	[M]
K3762	ERJ3GEY0R00V	0 1/16W	[M]
K3763	ERJ3GEY0R00V	0 1/16W	[M]
K3764	ERJ3GEY0R00V	0 1/16W	[M]
K6813	ERJ3GEY0R00V	0 1/16W	[M]
RA2021	EXBV4V102JV	1K 1/16W	[M]
RA2022	EXBV4V472JV	4.7K 1/16W	[M]
RA2501	EXBV8V473JV	47K 1/16W	[M]
RA3001	EXBV4V102JV	1K 1/16W	[M]
RA3002	EXBV8V820JV	82 1/16W	[M]
RA3003	EXBV8V820JV	82 1/16W	[M]
RA3004	EXBV8V820JV	82 1/16W	[M]
RA3005	EXBV8V820JV	82 1/16W	[M]
RA3006	EXBV8V820JV	82 1/16W	[M]
RA3007	EXBV8V820JV	82 1/16W	[M]
RA3008	EXBV8V820JV	82 1/16W	[M]
RA3009	EXBV8V331JV	330 1/16W	[M]
RA3010	EXBV8V331JV	330 1/16W	[M]
RA3031	EXBV4VR000V	0 1/16W	[M]
RA3032	EXBV4VR000V	0 1/16W	[M]
RA3033	EXBV4VR000V	0 1/16W	[M]
RA3701	EXBV8V220JV	22 1/16W	[M]
RA3702	EXBV4V101JV	100 1/16W	[M]
RA3751	EXBV8V471JV	470 1/16W	[M]
RA3752	EXBV8V471JV	470 1/16W	[M]
RA3753	EXBV8V471JV	470 1/16W	[M]
RA3754	EXBV8V471JV	470 1/16W	[M]
RA3755	EXBV8V471JV	470 1/16W	[M]
RA3756	EXBV8V471JV	470 1/16W	[M]
RA3757	EXBV4V471JV	470 1/16W	[M]
RA3758	EXBV4V101JV	100 1/16W	[M]
RA5001	EXBV4V560JV	56 1/16W	[M]
RA5002	EXBV8V560JV	56 1/16W	[M]
RA5003	EXBV8V560JV	56 1/16W	[M]
RA5201	EXBV8V101JV	100 1/16W	[M]
RA6201	EXBV4V103JV	10K 1/16W	[M]
RA6202	EXBV4V103JV	10K 1/16W	[M]
RA6203	EXBV4V472JV	4.7K 1/16W	[M]
RA6204	EXBV4V103JV	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
RA6205	EXBV8V103JV	10K 1/16W	[M]
RA6206	EXBV4V473JV	47K 1/16W	[M]
RA6207	EXBV4V472JV	4.7K 1/16W	[M]
		CAPACITORS	
C1	ECEA1CKA101B	100 16V	[M]
C2	ECBT1E103ZF5	0.01 25V	[M]
C101	ECEA0JKA101B	100 6.3V	[M]
C102	ECJ1VB1H103K	0.01 50V	[M]
C104	ECA0JM102B	1000 6.3V	[M]
C105	ECJ1VB1H103K	0.01 50V	[M]
C106	ECEA0JKA331B	330 6.3V	[M]
C107	ECEA1CKA470B	47 16V	[M]
C108	ECEA1CKA470B	47 16V	[M]
C109	ECEA1CKA470B	47 16V	[M]
C110	ECEA0JKA331B	330 6.3V	[M]
C111	ECEA1CKA470B	47 16V	[M]
C112	ECA0JM221B	220 6.3V	[M]
C113	ECJ1VB1H103K	0.01 50V	[M]
C114	ECJ1VB1H103K	0.01 50V	[M]
C120	ECA0JM102B	1000 6.3V	[M]
C121	ECA0JM102B	1000 6.3V	[M]
C122	ECEA0JKA101B	100 6.3V	[M]
C123	ECEA0JKA101B	100 6.3V	[M]
C125	ECJ1VC1H101K	100P 50V	[M]
C126	ECJ1VC1H101K	100P 50V	[M]
C127	ECJ1VB1H103K	0.01 50V	[M]
C128	ECJ1VC1H101K	100P 50V	[M]
C129	ECJ1VC1H101K	100P 50V	[M]
C131	ECJ1VC1H101K	100P 50V	[M]
C132	ECJ1VC1H101K	100P 50V	[M]
C133	ECJ1VB1H103K	0.01 50V	[M]
C134	ECJ1VC1H101K	100P 50V	[M]
C135	ECJ1VC1H101K	100P 50V	[M]
C136	ECJ1VB1H103K	0.01 50V	[M]
C137	ECEA1HKA2R2B	2.2 50V	[M]
C138	ECJ1VC1H470J	47P 50V	[M]
C140	ECEA1HKA010B	1 50V	[M]
C141	ECEA1HKA010B	1 50V	[M]
C142	ECEA1HKA3R3B	3.3 50V	[M]
C143	ECEA1HKA010B	1 50V	[M]
C144	ECUV1H470JCV	47P 50V	[M]
C145	ECJ1VC1H101K	100P 50V	[M]
C146	ECJ1VB1H103K	0.01 50V	[M]
C147	ECJ1VC1H101K	100P 50V	[M]
C148	ECUV1H470JCV	47P 50V	[M]
C149	ECEA1HKA010B	1 50V	[M]
C150	ECUV1H470JCV	47P 50V	[M]
C151	ECJ1VB1H681K	680P 50V	[M]
C152	ECJ1VB1H103K	0.01 50V	[M]
C153	ECJ1VB1H681K	680P 50V	[M]
C154	ECUV1H470JCV	47P 50V	[M]
C155	ECEA1CKA100B	10 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C156	ECEA1CKA100B	10 16V	[M]
C157	ECUV1H101JCV	100P 50V	[M]
C158	ECEA1CKA100B	10 16V	[M]
C159	ECEA1CKA100B	10 16V	[M]
C160	ECJ1VB1H103K	0.01 50V	[M]
C161	ECJ1VC1H101K	100P 50V	[M]
C162	ECUV1H470JCV	47P 50V	[M]
C163	ECEA1CKA100B	10 16V	[M]
C164	ECJ1VC1H101K	100P 50V	[M]
C165	ECUV1H470JCV	47P 50V	[M]
C166	ECJ1VB1H103K	0.01 50V	[M]
C181	ECEA1HKA010B	1 50V	[M]
C182	ECEA1HKA010B	1 50V	[M]
C183	ECUVNE104KBV	0.1 25V	[M]
C184	ECUVNE104KBV	0.1 25V	[M]
C215	ECEA1HKA010B	1 50V	[M]
C216	ECEA1CKA100B	10 16V	[M]
C217	ECEA1HKAR15B	0.15 50V	[M]
C218	ECEA1CKA100B	10 16V	[M]
C219	ECEA1HKA3R3B	3.3 50V	[M]
C220	ECEA1HKA010B	1 50V	[M]
C221	ECEA1CKA100B	10 16V	[M]
C222	ECEA1HKAR15B	0.15 50V	[M]
C223	ECEA1CKA100B	10 16V	[M]
C224	ECEA1HKA3R3B	3.3 50V	[M]
C225	ECEA1HKA010B	1 50V	[M]
C226	ECEA1CKA100B	10 16V	[M]
C227	ECEA1CKA100B	10 16V	[M]
C228	ECEA1HKA010B	1 50V	[M]
C229	ECEA1HKA010B	1 50V	[M]
C230	ECEA1CKA100B	10 16V	[M]
C231	ECEA1CKA100B	10 16V	[M]
C232	ECEA1HKA2R2B	2.2 50V	[M]
C233	ECUVNE104KBV	0.1 25V	[M]
C235	ECJ1VC1H101K	100P 50V	[M]
C237	ECJ1VC1H101K	100P 50V	[M]
C238	ECJ1VB1H221K	220P 50V	[M]
C239	ECJ1VB1H221K	220P 50V	[M]
C240	ECUV1H470JCV	47P 50V	[M]
C241	ECUV1H470JCV	47P 50V	[M]
C242	ECUVNE104KBV	0.1 25V	[M]
C243	ECJ1VB1H103K	0.01 50V	[M]
C251	ECEA1CKA100B	10 16V	[M]
C252	ECUVNE104KBV	0.1 25V	[M]
C253	ECUVNE104KBV	0.1 25V	[M]
C265	ECEA1CKA100B	10 16V	[M]
C266	ECEA1CKA100B	10 16V	[M]
C267	ECJ1VB1H471K	470P 50V	[M]
C268	ECJ1VB1H471K	470P 50V	[M]
C269	ECUV1H470JCV	47P 50V	[M]
C270	ECUV1H470JCV	47P 50V	[M]
C271	ECJ1VB1H103K	0.01 50V	[M]
C272	ECJ1VB1H103K	0.01 50V	[M]
C273	ECEA1CKA220B	22 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C274	ECEA1CKA220B	22 16V	[M]
C275	ECEA1CKA100B	10 16V	[M]
C276	ECEA1CKA100B	10 16V	[M]
C277	ECJ1VB1H471K	470P 50V	[M]
C278	ECJ1VB1H471K	470P 50V	[M]
C279	ECUV1H470JCV	47P 50V	[M]
C280	ECUV1H470JCV	47P 50V	[M]
C281	ECEA1CKA220B	22 16V	[M]
C282	ECEA1CKA220B	22 16V	[M]
C283	ECEA1CKA100B	10 16V	[M]
C284	ECEA1CKA100B	10 16V	[M]
C285	ECUV1H470JCV	47P 50V	[M]
C286	ECUV1H470JCV	47P 50V	[M]
C287	ECJ1VB1H471K	470P 50V	[M]
C288	ECJ1VB1H471K	470P 50V	[M]
C289	ECUVNE104KBV	0.1 25V	[M]
C290	ECUVNE104KBV	0.1 25V	[M]
C291	ECEA1CKA220B	22 16V	[M]
C292	ECEA1CKA220B	22 16V	[M]
C293	ECEA1CKA220B	22 16V	[M]
C294	ECEA1CKA220B	22 16V	[M]
C295	ECJ1VB1H222K	2200P 50V	[M]
C296	ECJ1VB1H222K	2200P 50V	[M]
C297	ECEA1CKA220B	22 16V	[M]
C298	ECEA1CKA220B	22 16V	[M]
C299	ECJ1VB1H222K	2200P 50V	[M]
C300	ECJ1VB1H222K	2200P 50V	[M]
C301	ECEA1CKA220B	22 16V	[M]
C302	ECEA1CKA220B	22 16V	[M]
C303	ECJ1VB1H222K	2200P 50V	[M]
C304	ECJ1VB1H222K	2200P 50V	[M]
C309	ECEA1HKA3R3B	3.3 50V	[M]
C401	ECEA1CKA100B	10 16V	[M]
C402	ECEA1HKA3R3B	3.3 50V	[M]
C403	ECEA1HKA4R7B	4.7 50V	[M]
C404	ECEA1HKA4R7B	4.7 50V	[M]
C405	ECEA1HKA3R3B	3.3 50V	[M]
C406	ECEA1CKA100B	10 16V	[M]
C407	ECBT1H103KB5	0.01 50V	[M]
C408	ECBT1H103KB5	0.01 50V	[M]
C409	ECBT1H101KB5	100P 50V	[M]
C410	ECBT1H101KB5	100P 50V	[M]
C411	ECBT1H121KB5	120P 50V	[M]
C412	ECBT1H121KB5	120P 50V	[M]
C413	ECBT1H102KB5	1000P 50V	[M]
C414	ECBT1H102KB5	1000P 50V	[M]
C415	ECBT1H103KB5	0.01 50V	[M]
C416	ECEA1CKA100B	10 16V	[M]
C417	ECEA1HKA3R3B	3.3 50V	[M]
C418	ECFR1C104KR	0.1 16V	[M]
C419	F1C1C393A013	0.039 16V	[M]
C420	ECBT1C562KR5	5600P 16V	[M]
C421	ECBT1H473KB5	0.047 50V	[M]
C422	ECQV1H154JZ3	0.15 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C423	ECEA1HKA010B	1 50V	[M]
C424	ECBT1H473KB5	0.047 50V	[M]
C425	ECFR1C104KR	0.1 16V	[M]
C426	ECFR1C104KR	0.1 16V	[M]
C427	ECBT1H473KB5	0.047 50V	[M]
C428	ECEA1CKA100B	10 16V	[M]
C429	ECEA1HKA010B	1 50V	[M]
C430	ECEA1CKA100B	10 16V	[M]
C431	ECBT1H103KB5	0.01 50V	[M]
C432	ECEA1CKA100B	10 16V	[M]
C433	ECEA1AKA101B	100 10V	[M]
C434	ECEA1HKA4R7B	4.7 50V	[M]
C452	ECUV1E223KBV	0.022 25V	[M]
C453	ECJ1VB1H103K	0.01 50V	[M]
C454	ECEA0JKA470B	47 6.3V	[M]
C455	ECJ1VB1H103K	0.01 50V	[M]
C456	ECJ1VB1H103K	0.01 50V	[M]
C473	ECA1EM101B	100 25V	[M]
C500	ECKWRS102MBC	1000P 400V	[M] ⚠
C501	ECBT1H471KB5	470P 50V	[M]
C502	ECBT1H471KB5	470P 50V	[M]
C503	ECBT1H471KB5	470P 50V	[M]
C504	ECBT1H471KB5	470P 50V	[M]
C505	ECBT1H471KB5	470P 50V	[M]
C506	ECBT1H471KB5	470P 50V	[M]
C507	ECBT1H180JC5	18P 50V	[M]
C508	ECBT1H180JC5	18P 50V	[M]
C509	ECBT1H220JC5	22P 50V	[M]
C510	ECBT1H220JC5	22P 50V	[M]
C511	ECBT1H220JC5	22P 50V	[M]
C512	ECBT1H220JC5	22P 50V	[M]
C513	ECBT1H473KB5	0.047 50V	[M]
C514	ECEA0JKA221B	220 6.3V	[M]
C515	ECKR2H103ZF5	0.01 500V	[M]
C516	ECKR2H103ZF5	0.01 500V	[M]
C517	ECBT1C103NS5	0.01 16V	[M]
C518	ECBT1H104KB5	0.1 50V	[M]
C519	ECEA1HKA2R2B	2.2 50V	[M]
C520	ECA0JM471B	470 6.3V	[M]
C521	ECBT1H473KB5	0.047 50V	[M]
C522	ECBT1H473KB5	0.047 50V	[M]
C523	ECBT1H473KB5	0.047 50V	[M]
C524	ECBT1H473KB5	0.047 50V	[M]
C525	ECBT1H473KB5	0.047 50V	[M]
C526	ECBT1H473KB5	0.047 50V	[M]
C527	ECEA1VM332B	3300 35V	[M]
C528	F2A1V562A157	5600P 35V	[M]
C529	F2A1V562A157	5600P 35V	[M]
C530	ECEA1VM332B	3300 35V	[M]
C531	ECQE1104KF3	0.1 100V	[M]
C532	ECQE1104KF3	0.1 100V	[M]
C534	ECBT1H102KB5	1000P 50V	[M]
C535	ECA1HM470B	47 50V	[M]
C536	ECBT1H103KB5	0.01 50V	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
C537	ECA1EM101B	100 25V	[M]
C538	ECBT1H103KB5	0.01 50V	[M]
C539	ECEA1CKA470B	47 16V	[M]
C541	ECEA1HKA4R7B	4.7 50V	[M]
C542	ECA1EM331B	330 25V	[M]
C543	ECA1EM331B	330 25V	[M]
C544	ECA1HM101B	100 50V	[M]
C545	ECA1HM101B	100 50V	[M]
C546	ECA1JM101B	100 63V	[M]
C547	ECA1JM101B	100 63V	[M]
C548	ECBT1H102KB5	1000P 50V	[M]
C549	ECA1HM100B	10 50V	[M]
C551	ECEA1HKA4R7B	4.7 50V	[M]
C552	ECBT1H104KB5	0.1 50V	[M]
C553	ECEA0JKA221B	220 6.3V	[M]
C554	ECEA1CKA330B	33 16V	[M]
C555	ECEA0JKA221B	220 6.3V	[M]
C559	ECKR1H473ZF5	0.047 50V	[M]
C560	ECQE1104KF3	0.1 100V	[M]
C561	ECA1EM222B	2200 25V	[M]
C592	ECBT1H103KB5	0.01 50V	[M]
C593	RCA1CM102BT	1000P 16V	[M]
C594	RCA1CM102BT	1000P 16V	[M]
C595	ECEA1VKA4R7B	4.7 35V	[M]
C596	ECBT1H103KB5	0.01 50V	[M]
C597	ECEA1AKA470B	47 10V	[M]
C602	ECUV1H561KBV	560P 50V	[M]
C603	ECUV1H561KBV	560P 50V	[M]
C604	ECEA1CKA100B	10 16V	[M]
C605	ECJ1VB1H102K	1000P 50V	[M]
C609	ECJ1VB1H103K	0.01 50V	[M]
C610	ECJ1VB1H103K	0.01 50V	[M]
C611	ECJ1VB1H103K	0.01 50V	[M]
C612	ECEA1HKA2R2B	2.2 50V	[M]
C619	ECJ1VB1H102K	1000P 50V	[M]
C620	ECJ1VB1H103K	0.01 50V	[M]
C621	ECEA1HKA3R3B	3.3 50V	[M]
C622	ECEA1VKA220B	22 35V	[M]
C623	ECEA1VKA220B	22 35V	[M]
C624	ECEA0JKS101B	100 6.3V	[M]
C625	ECUVNE104KBV	0.1 25V	[M]
C626	ECA0JM471B	470 6.3V	[M]
C627	ECJ1VB1H102K	1000P 50V	[M]
C628	F1H1H331A022	330P 50V	[M]
C629	ECJ1VB1H103K	0.01 50V	[M]
C630	ECEA1AKA220B	22 10V	[M]
C631	ECA0JM471B	470 6.3V	[M]
C672	ECJ1VC1H101K	100P 50V	[M]
C701	ECQE1104KF3	0.1 100V	[M]
C702	ECA1EM472B	4700 25V	[M]
C703	ECEA1CKA100B	10 16V	[M]
C704	ECJ1VB1H103K	0.01 50V	[M]
C705	ECJ1VB1H103K	0.01 50V	[M]
C706	EEUFC0J821B	820P 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C707	ECEA1AKA101B	100 10V	[M]
C708	ECEA0JKA221B	220 6.3V	[M]
C709	ECA1EM101B	100 25V	[M]
C710	ECEA1AKA101B	100 10V	[M]
C711	ECEA1CKA100B	10 16V	[M]
C712	ECEA1CKA100B	10 16V	[M]
C714	ECJ1VB1H102K	1000P 50V	[M]
C715	ECJ1VB1H102K	1000P 50V	[M]
C716	F2A1E222A172	2200P 25V	[M]
C717	ECJ1VB1H103K	0.01 50V	[M]
C719	ECUVNE104KBV	0.1 25V	[M]
C739	ECUVNA105KBV	1 10V	[M]
C740	ECUVNA105KBV	1 10V	[M]
C741	EEUFC0J821B	820P 6.3V	[M]
C742	ECEA1CKA100B	10 16V	[M]
C743	ECA1EM101B	100 25V	[M]
C838	F1H1H5R0A759	5P 50V	[M]
C839	ECJ2VC1H120J	12P 50V	[M]
C840	ECJ1VB1H103K	0.01 50V	[M]
C841	ECJ1VB1H222K	2200P 50V	[M]
C842	ECJ1VB1H222K	2200P 50V	[M]
C843	ECEA1HKA4R7B	4.7 50V	[M]
C844	ECEA1HKA4R7B	4.7 50V	[M]
C845	ECJ1VB1H103K	0.01 50V	[M]
C846	ECEA1HKA010B	1 50V	[M]
C847	ECJ1VB1H103K	0.01 50V	[M]
C848	ECJ1VB1H222K	2200P 50V	[M]
C849	ECJ1VB1H681K	680P 50V	[M]
C850	ECJ1VB1H681K	680P 50V	[M]
C851	ECJ1VB1H102K	1000P 50V	[M]
C852	ECJ1VB1H102K	1000P 50V	[M]
C853	ECUV1H470JCV	47P 50V	[M]
C854	ECUV1H470JCV	47P 50V	[M]
C855	ECJ1VB1H103K	0.01 50V	[M]
C856	ECJ1VB1H103K	0.01 50V	[M]
C857	ECUV1H470JCV	47P 50V	[M]
C858	ECJ1VB1H222K	2200P 50V	[M]
C859	ECEA1HKA010B	1 50V	[M]
C860	F1H1H331A022	330P 50V	[M]
C861	ECJ1VB1H103K	0.01 50V	[M]
C862	ECJ1VB1H103K	0.01 50V	[M]
C863	ECEA1CKA100B	10 16V	[M]
C864	ECJ1VB1H103K	0.01 50V	[M]
C865	ECJ1VB1H103K	0.01 50V	[M]
C866	ECEA1CKA100B	10 16V	[M]
C867	ECUV1H151KCV	150P 50V	[M]
C868	ECUV1H151KCV	150P 50V	[M]
C869	ECUV1H470JCV	47P 50V	[M]
C870	ECUV1H470JCV	47P 50V	[M]
C871	ECJ1VB1H103K	0.01 50V	[M]
C872	ECJ1VB1H471K	470P 50V	[M]
C873	ECJ1VB1H471K	470P 50V	[M]
C874	ECUV1E223KBV	0.022 25V	[M]
C875	ECJ1VB1H103K	0.01 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C876	ECEA0JKA470B	47 6.3V	[M]
C877	ECJ1VB1H103K	0.01 50V	[M]
C878	ECJ1VB1H103K	0.01 50V	[M]
C879	ECJ1VB1H103K	0.01 50V	[M]
C880	ECJ1VB1H103K	0.01 50V	[M]
C881	ECJ1VB1H103K	0.01 50V	[M]
C882	ECUVNE104KBV	0.1 25V	[M]
C883	ECEA1HKA010B	1 50V	[M]
C884	ECJ1VB1H103K	0.01 50V	[M]
C885	F1H1H223A761	0.022 50V	[M]
C886	EEAFC0J101B	100P 6.3V	[M]
C887	ECEA1HKA010B	1 50V	[M]
C888	ECJ1VB1H103K	0.01 50V	[M]
C889	ECUVNE104KBV	0.1 25V	[M]
C890	ECJ1VB1H332K	3300P 50V	[M]
C891	ECJ1VB1H332K	3300P 50V	[M]
C892	ECEA1HKA010B	1 50V	[M]
C893	ECEA0JKA470B	47 6.3V	[M]
C894	EEAFC0J101B	100P 6.3V	[M]
C895	ECEA1HKAR47B	0.47 50V	[M]
C896	ECEA1HKAR47B	0.47 50V	[M]
C897	ECEA1HKAR47B	0.47 50V	[M]
C898	ECEA1HKA010B	1 50V	[M]
C899	ECEA1HKA4R7B	4.7 50V	[M]
C900	ECEA1HKA4R7B	4.7 50V	[M]
C901	ECEA1CKA101B	100 16V	[M]
C902	ECEA1HKA4R7B	4.7 50V	[M]
C903	ECEA1HKA4R7B	4.7 50V	[M]
C904	ECEA1HKA4R7B	4.7 50V	[M]
C905	ECEA1HKA4R7B	4.7 50V	[M]
C906	ECEA1HKAR47B	0.47 50V	[M]
C907	ECEA1HKAR47B	0.47 50V	[M]
C908	ECEA1HKAR47B	0.47 50V	[M]
C909	ECEA1CKA100B	10 16V	[M]
C910	ECEA1CKA220B	22 16V	[M]
C911	ECEA1CKA220B	22 16V	[M]
C912	ECEA1CKA220B	22 16V	[M]
C913	ECEA1CKA220B	22 16V	[M]
C914	ECEA1CKA100B	10 16V	[M]
C915	ECJ1VB1H222K	2200P 50V	[M]
C916	ECJ1VB1H222K	2200P 50V	[M]
C918	ECUV1E473KBV	0.047 25V	[M]
C919	ECUV1E473KBV	0.047 25V	[M]
C921	ECJ1VB1H102K	1000P 50V	[M]
C2001	ECEV0GA101SR	100 4V	[M]
C2002	ECEV0GA101SR	100 4V	[M]
C2003	ECUVNC104ZFV	0.1 16V	[M]
C2004	ECUVNC104ZFV	0.1 16V	[M]
C2005	ECUVNC104ZFV	0.1 16V	[M]
C2006	ECUVNC104ZFV	0.1 16V	[M]
C2007	ECUVNC104ZFV	0.1 16V	[M]
C2008	ECUVNC104ZFV	0.1 16V	[M]
C2009	ECUVNC104ZFV	0.1 16V	[M]
C2010	ECUVNC104ZFV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2011	ECUVNC104ZFV	0.1 16V	[M]
C2012	ECUVNC104ZFV	0.1 16V	[M]
C2013	ECUVNC104ZFV	0.1 16V	[M]
C2014	ECUVNC104ZFV	0.1 16V	[M]
C2015	ECUVNC104ZFV	0.1 16V	[M]
C2016	ECUVNC104ZFV	0.1 16V	[M]
C2017	ECUVNC104ZFV	0.1 16V	[M]
C2018	ECUVNC104ZFV	0.1 16V	[M]
C2021	ECEV0GA101SR	100 4V	[M]
C2022	ECUVNC104ZFV	0.1 16V	[M]
C2023	ECUVNC104ZFV	0.1 16V	[M]
C2024	ECUVNC104ZFV	0.1 16V	[M]
C2025	ECUVNC104ZFV	0.1 16V	[M]
C2026	ECUVNC104KBV	0.1 16V	[M]
C2027	ECUVNC104ZFV	0.1 16V	[M]
C2031	ECUVNC104KBV	0.1 16V	[M]
C2032	ECUVNC104KBV	0.1 16V	[M]
C2034	F1H1C393A089	0.039 16V	[M]
C2035	F1H1H822A022	8200P 50V	[M]
C2036	ECUVNC104KBV	0.1 16V	[M]
C2038	ECUVNC104KBV	0.1 16V	[M]
C2039	ECJ1VB1C103K	0.01 16V	[M]
C2040	ECJ1VC1H102J	1000P 50V	[M]
C2041	F1H1H331A765	330P 50V	[M]
C2042	F1H1H331A765	330P 50V	[M]
C2043	ECUV1H101JCV	100P 50V	[M]
C2044	F1H1H391A765	390P 50V	[M]
C2045	F1H1H391A765	390P 50V	[M]
C2046	ECJ1VC1H102J	1000P 50V	[M]
C2047	ECJ1VB1C103K	0.01 16V	[M]
C2048	ECUV1C153KBV	0.015 16V	[M]
C2050	ECUV1C333KBV	0.033 16V	[M]
C2051	ECUV1H680JCV	68P 50V	[M]
C2052	ECUVNC104ZFV	0.1 16V	[M]
C2053	ECUVNC104ZFV	0.1 16V	[M]
C2054	F1H1H681A796	680P 50V	[M]
C2055	ECJ1VB1H682K	6800P 50V	[M]
C2056	ECUVNC104KBV	0.1 16V	[M]
C2057	ECUVNC104KBV	0.1 16V	[M]
C2058	ECJ1VC1H102J	1000P 50V	[M]
C2059	ECUV1H821JCV	820P 50V	[M]
C2060	ECJ1VC1H102J	1000P 50V	[M]
C2061	F1H1H331A765	330P 50V	[M]
C2062	F1H1H331A765	330P 50V	[M]
C2063	ECJ1VC1H102J	1000P 50V	[M]
C2064	ECJ1VC1H102J	1000P 50V	[M]
C2065	ECJ1VC1H102J	1000P 50V	[M]
C2066	ECJ1VB1H472K	4700P 50V	[M]
C2067	ECJ1VB1H472K	4700P 50V	[M]
C2068	ECJ1VB1H472K	4700P 50V	[M]
C2501	EEVHB0J101P	100P 6.3V	[M]
C2502	ECEV0JA331P	330 6.3V	[M]
C2503	ECEV1CA101WP	100 16V	[M]
C2504	ECUVNC104ZFV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2505	ECUVNC104ZFV	0.1 16V	[M]
C2506	ECUVNC104ZFV	0.1 16V	[M]
C2507	ECUVNC104ZFV	0.1 16V	[M]
C2508	ECUVNC104ZFV	0.1 16V	[M]
C2511	ECUVNC104ZFV	0.1 16V	[M]
C2512	ECUVNC104ZFV	0.1 16V	[M]
C2601	ECUV1C104ZFV	0.1 16V	[M]
C2602	ECUV1C104ZFV	0.1 16V	[M]
C3001	ECEV0JA331P	330 6.3V	[M]
C3002	ECEV0JA331P	330 6.3V	[M]
C3003	ECUVNC104ZFV	0.1 16V	[M]
C3004	ECUVNC104ZFV	0.1 16V	[M]
C3005	ECUVNC104ZFV	0.1 16V	[M]
C3006	ECUVNC104ZFV	0.1 16V	[M]
C3007	ECUVNC104ZFV	0.1 16V	[M]
C3008	F1H1A105A038	1 10V	[M]
C3009	F1H1A105A038	1 10V	[M]
C3010	ECUVNC104ZFV	0.1 16V	[M]
C3011	ECUVNC104ZFV	0.1 16V	[M]
C3012	ECUVNC104ZFV	0.1 16V	[M]
C3013	ECUVNC104ZFV	0.1 16V	[M]
C3014	ECUVNC104ZFV	0.1 16V	[M]
C3015	ECUVNC104ZFV	0.1 16V	[M]
C3016	ECUVNC104ZFV	0.1 16V	[M]
C3017	ECUVNC104ZFV	0.1 16V	[M]
C3018	ECUVNC104ZFV	0.1 16V	[M]
C3019	ECUVNC104ZFV	0.1 16V	[M]
C3020	ECUVNC104ZFV	0.1 16V	[M]
C3021	ECUVNC104ZFV	0.1 16V	[M]
C3022	ECUVNC104ZFV	0.1 16V	[M]
C3023	ECUVNC104ZFV	0.1 16V	[M]
C3024	ECUVNC104ZFV	0.1 16V	[M]
C3025	ECUVNC104ZFV	0.1 16V	[M]
C3026	ECUVNC104ZFV	0.1 16V	[M]
C3027	ECUVNC104ZFV	0.1 16V	[M]
C3028	ECUVNC104ZFV	0.1 16V	[M]
C3029	ECUVNC104ZFV	0.1 16V	[M]
C3030	ECUVNC104ZFV	0.1 16V	[M]
C3031	ECUVNC104ZFV	0.1 16V	[M]
C3032	ECUVNC104ZFV	0.1 16V	[M]
C3033	ECUVNC104ZFV	0.1 16V	[M]
C3034	ECUVNC104ZFV	0.1 16V	[M]
C3035	ECUVNC104ZFV	0.1 16V	[M]
C3036	ECUVNC104ZFV	0.1 16V	[M]
C3041	ECUVNC104ZFV	0.1 16V	[M]
C3042	ECUVNC104ZFV	0.1 16V	[M]
C3043	ECUVNC104ZFV	0.1 16V	[M]
C3044	ECUVNC104ZFV	0.1 16V	[M]
C3045	ECUVNC104ZFV	0.1 16V	[M]
C3051	ECUVNC104ZFV	0.1 16V	[M]
C3052	ECUVNC104ZFV	0.1 16V	[M]
C3054	ECJ1VC1H220J	22P 50V	[M]
C3061	ECUVNC104ZFV	0.1 16V	[M]
C3062	ECUVNC104ZFV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C3063	ECUVNC104ZFV	0.1 16V	[M]
C3064	ECUVNC104ZFV	0.1 16V	[M]
C3065	ECUVNC104ZFV	0.1 16V	[M]
C3066	ECUVNC104ZFV	0.1 16V	[M]
C3067	ECUVNC104ZFV	0.1 16V	[M]
C3071	ECUVNC104ZFV	0.1 16V	[M]
C3072	ECUVNC104ZFV	0.1 16V	[M]
C3073	RCST1AY106RE	10 10V	[M]
C3080	ECEV0JA331P	330 6.3V	[M]
C3081	ECUVNC104ZFV	0.1 16V	[M]
C3082	ECUVNC104ZFV	0.1 16V	[M]
C3083	F1H0J1050005	1 6.3V	[M]
C3084	F1H0J1050005	1 6.3V	[M]
C3085	F1H0J1050005	10 6.3V	[M]
C3086	F1H0J1050005	10 6.3V	[M]
C3087	ECUVNC104ZFV	0.1 16V	[M]
C3088	ECUVNC104ZFV	0.1 16V	[M]
C3089	ECUVNC104ZFV	0.1 16V	[M]
C3100	EEVHB0J101P	100P 6.3V	[M]
C3101	ECUVNC104ZFV	0.1 16V	[M]
C3106	ECUVNC104ZFV	0.1 16V	[M]
C3111	ECUVNC104ZFV	0.1 16V	[M]
C3116	ECUVNC104ZFV	0.1 16V	[M]
C3210	ECUVNC104ZFV	0.1 16V	[M]
C3211	ECUVNC104ZFV	0.1 16V	[M]
C3212	ECUVNC104ZFV	0.1 16V	[M]
C3213	ECUVNC104ZFV	0.1 16V	[M]
C3214	ECUVNC104ZFV	0.1 16V	[M]
C3261	ECUVNC104ZFV	0.1 16V	[M]
C3701	ECEV0JA331P	330 6.3V	[M]
C3702	ECEV0JA331P	330 6.3V	[M]
C3703	ECUVNC104ZFV	0.1 16V	[M]
C3704	ECUVNC104ZFV	0.1 16V	[M]
C3705	ECUVNC104ZFV	0.1 16V	[M]
C3706	ECUVNC104ZFV	0.1 16V	[M]
C3707	ECUVNC104ZFV	0.1 16V	[M]
C3708	ECUVNC104ZFV	0.1 16V	[M]
C3709	ECUVNC104ZFV	0.1 16V	[M]
C3710	ECUVNC104ZFV	0.1 16V	[M]
C3711	ECUVNC104ZFV	0.1 16V	[M]
C3712	ECUVNC104ZFV	0.1 16V	[M]
C3713	ECUVNC104ZFV	0.1 16V	[M]
C3714	ECUVNC104ZFV	0.1 16V	[M]
C3715	ECUVNC104ZFV	0.1 16V	[M]
C3716	ECUVNC104ZFV	0.1 16V	[M]
C3717	ECUVNC104ZFV	0.1 16V	[M]
C3718	ECUVNC104ZFV	0.1 16V	[M]
C3719	ECUVNC104ZFV	0.1 16V	[M]
C3720	ECEV0GA330SR	33 4V	[M]
C3721	ECUVNC104ZFV	0.1 16V	[M]
C3722	ECUV1H100CCV	10P 50V	[M]
C3723	ECUV1H100CCV	10P 50V	[M]
C3724	ECUVNC104ZFV	0.1 16V	[M]
C3731	RCST1AY106RE	10 10V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C3732	ECUVNC104ZFV	0.1 16V	[M]
C3733	ECUVNC104ZFV	0.1 16V	[M]
C3734	ECUVNC104ZFV	0.1 16V	[M]
C3735	ECUVNC104ZFV	0.1 16V	[M]
C3736	ECUVNC104ZFV	0.1 16V	[M]
C3737	ECUVNC104ZFV	0.1 16V	[M]
C3738	ECUVNC104ZFV	0.1 16V	[M]
C3739	ECUVNC104ZFV	0.1 16V	[M]
C3740	ECUVNC104ZFV	0.1 16V	[M]
C3741	ECUVNC104ZFV	0.1 16V	[M]
C3742	ECUVNC104ZFV	0.1 16V	[M]
C3743	ECUVNC104ZFV	0.1 16V	[M]
C3751	ECUVNC104ZFV	0.1 16V	[M]
C3752	ECUVNC104ZFV	0.1 16V	[M]
C3753	ECUVNC104ZFV	0.1 16V	[M]
C3754	ECUVNC104ZFV	0.1 16V	[M]
C3755	ECUVNC104ZFV	0.1 16V	[M]
C3756	ECUVNC104ZFV	0.1 16V	[M]
C3757	ECUVNC104KBV	0.1 16V	[M]
C3758	F1H0J1050013	1 6.3V	[M]
C3759	ECUVNC104ZFV	0.1 16V	[M]
C3761	ECUVNC104ZFV	0.1 16V	[M]
C3762	ECUVNC104ZFV	0.1 16V	[M]
C3763	ECUVNC104ZFV	0.1 16V	[M]
C3766	ECUVNC104ZFV	0.1 16V	[M]
C3770	EEVHB0J101P	100P 6.3V	[M]
C3771	ECUVNC104ZFV	0.1 16V	[M]
C4208	ECUVNC104ZFV	0.1 16V	[M]
C4211	RCST1AY106RE	10 10V	[M]
C4215	ECUVNC104ZFV	0.1 16V	[M]
C4216	F2G0J101A015	100P 6.3V	[M]
C4217	ECUVNC104ZFV	0.1 16V	[M]
C4219	RCST1AY106RE	10 10V	[M]
C4220	RCST1AY106RE	10 10V	[M]
C4221	ECUVNC104ZFV	0.1 16V	[M]
C4222	ECUVNC104ZFV	0.1 16V	[M]
C4223	ECUVNC104ZFV	0.1 16V	[M]
C4224	ECUVNC104ZFV	0.1 16V	[M]
C4225	ECUVNC104ZFV	0.1 16V	[M]
C4226	ECUVNC104ZFV	0.1 16V	[M]
C4227	ECUVNC104ZFV	0.1 16V	[M]
C4228	F2G0J331A015	330P 6.3V	[M]
C4229	F2G0J331A015	330P 6.3V	[M]
C5001	ECUV1C104ZFV	0.1 16V	[M]
C5002	ECUV1C104ZFV	0.1 16V	[M]
C5201	EEVHB1C100R	10P 16V	[M]
C5202	EEVHB1C100R	10P 16V	[M]
C5203	ECUVNC104ZFV	0.1 16V	[M]
C5204	ECUVNC104ZFV	0.1 16V	[M]
C5205	ECUVNC104ZFV	0.1 16V	[M]
C5206	ECUVNC104ZFV	0.1 16V	[M]
C5211	EEVHB0J470R	47P 6.3V	[M]
C5215	EEVHB0J470R	47P 6.3V	[M]
C5221	ECUVNC104ZFV	0.1 16V	[M]

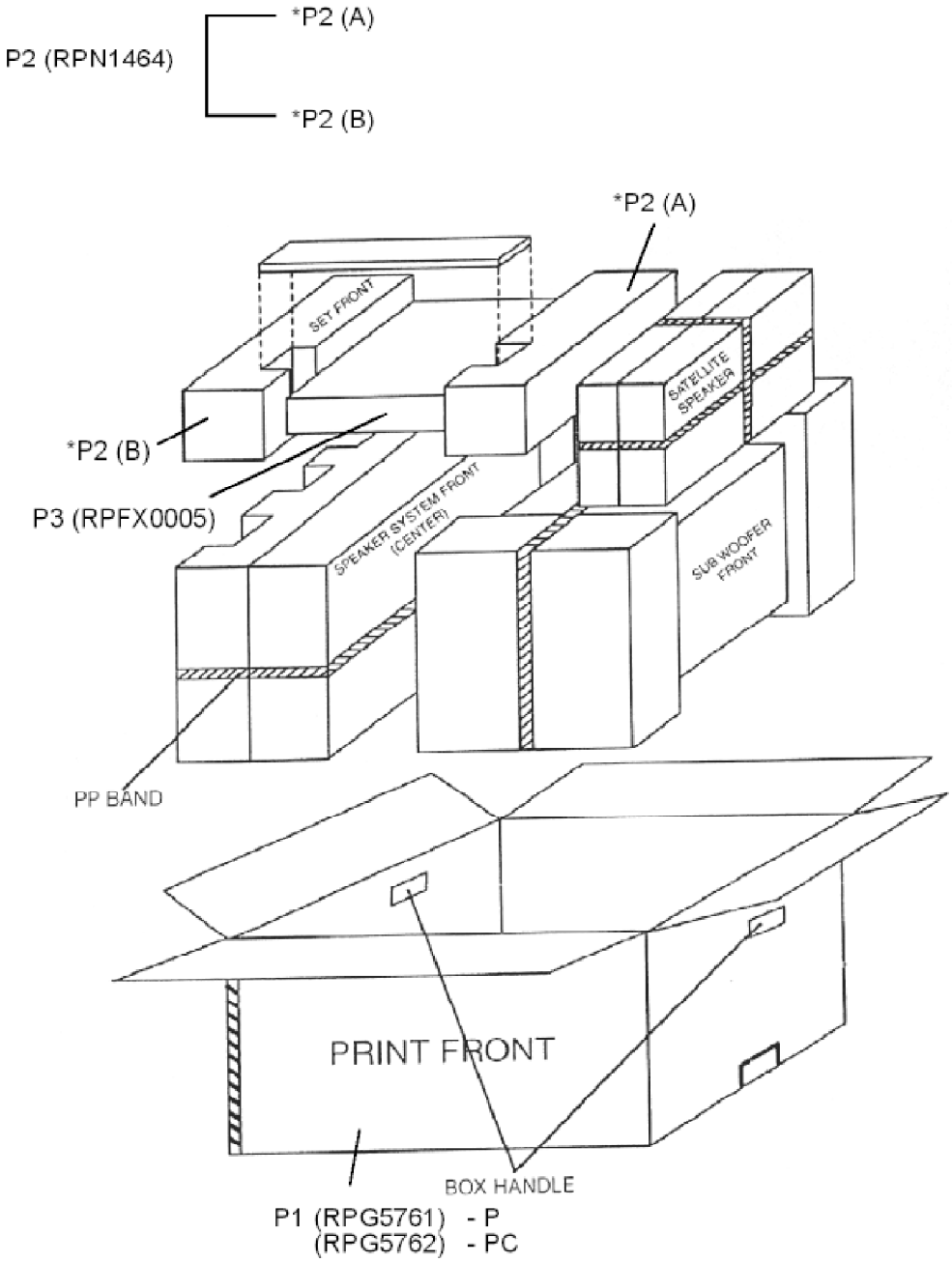
Ref. No.	Part No.	Part Name & Description	Remarks
C5222	RCST1AY106RE	10 10V	[M]
C5232	ECUVNC104ZFV	0.1 16V	[M]
C5233	ECUVNC104ZFV	0.1 16V	[M]
C5234	ECUVNC104ZFV	0.1 16V	[M]
C5235	ECUVNC104KBV	0.1 16V	[M]
C5236	ECUVNC104KBV	0.1 16V	[M]
C5241	ECUVNC104ZFV	0.1 16V	[M]
C5242	ECUVNC104ZFV	0.1 16V	[M]
C5243	ECUVNC104ZFV	0.1 16V	[M]
C5244	ECUVNC104ZFV	0.1 16V	[M]
C5245	ECUVNC104ZFV	0.1 16V	[M]
C5246	ECUVNC104ZFV	0.1 16V	[M]
C5247	ECUVNC104ZFV	0.1 16V	[M]
C5248	ECUVNC104ZFV	0.1 16V	[M]
C5251	ECUV1H101JCV	100P 50V	[M]
C5252	ECUVNC104KBV	0.1 16V	[M]
C5261	ECUVNC104ZFV	0.1 16V	[M]
C5262	ECUV1H821JCV	820P 50V	[M]
C5263	ECUV1H221JCV	220P 50V	[M]
C5264	ECUV1H821JCV	820P 50V	[M]
C5271	ECUVNC104ZFV	0.1 16V	[M]
C5272	ECUVNC104ZFV	0.1 16V	[M]
C5273	ECJ1VB1H182K	1800P 50V	[M]
C5274	ECUVNC104KBV	0.1 16V	[M]
C5282	ECUVNC104ZFV	0.1 16V	[M]
C5283	F1H1H561A765	560P 50V	[M]
C5284	F1H1H561A765	560P 50V	[M]
C5288	ECUVNC104ZFV	0.1 16V	[M]
C5289	ECUVNC104KBV	0.1 16V	[M]
C5290	ECUVNC104KBV	0.1 16V	[M]
C5291	ECUVNC104KBV	0.1 16V	[M]
C5292	ECUVNC104KBV	0.1 16V	[M]
C5295	ECUVNC104ZFV	0.1 16V	[M]
C5298	F1H1C473A088	0.047 16V	[M]
C6201	ECEV0GA330SR	33 4V	[M]
C6202	ECUVNC104ZFV	0.1 16V	[M]
C6203	ECUVNC104ZFV	0.1 16V	[M]
C6204	ECUVNC104ZFV	0.1 16V	[M]
C6205	ECUVNC104ZFV	0.1 16V	[M]
C6206	ECUVNC104ZFV	0.1 16V	[M]
C6211	ECUVNC104ZFV	0.1 16V	[M]
C6212	ECUV1H101JCV	100P 50V	[M]
C6215	ECUVNC104KBV	0.1 16V	[M]
C6222	ECUVNC104ZFV	0.1 16V	[M]
C6223	ECUVNC104ZFV	0.1 16V	[M]
C6251	F1H1A105A038	1 10V	[M]
C6252	ECJ1VC1H471J	470P 50V	[M]
C6253	RCST1AY106RE	10 10V	[M]
C6257	EEVHB0J101P	100P 6.3V	[M]
C6261	ECUVNC104ZFV	0.1 16V	[M]
C6262	RCST1AY106RE	10 10V	[M]
C6304	ECUVNC104ZFV	0.1 16V	[M]
C6305	ECUVNC104ZFV	0.1 16V	[M]
C6501	ECEV0GA330SR	33 4V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C6502	ECEV0GA330SR	33 4V	[M]
C6503	ECUVNC104ZFV	0.1 16V	[M]
C6504	ECUVNC104ZFV	0.1 16V	[M]
C6505	ECUVNC104ZFV	0.1 16V	[M]
C6511	ECJ1VC1H150J	15P 50V	[M]
C6512	ECJ1VC1H150J	15P 50V	[M]
C6521	ECUVNC104ZFV	0.1 16V	[M]
C6801	ECEV0GA101SR	100 4V	[M]
C6802	ECEV0GA101SR	100 4V	[M]
C6803	ECUV1C224ZFV	0.22 16V	[M]
C6804	ECUV1C224ZFV	0.22 16V	[M]
C6805	ECUV1C224ZFV	0.22 16V	[M]
C6806	ECUV1C224ZFV	0.22 16V	[M]
C6807	ECUV1C224ZFV	0.22 16V	[M]
C6808	ECUV1C224ZFV	0.22 16V	[M]
C6809	ECUV1C224ZFV	0.22 16V	[M]
C6810	ECUV1C224ZFV	0.22 16V	[M]
C6811	ECUV1C224ZFV	0.22 16V	[M]
C6812	ECUV1C224ZFV	0.22 16V	[M]
C6813	ECUV1C224ZFV	0.22 16V	[M]
C6814	ECUV1C224ZFV	0.22 16V	[M]
C6815	ECUVNC104ZFV	0.1 16V	[M]

18.4. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG5761	PACKING CASE	[M]P
P1	RPG5762	PACKING CASE	[M]PC
P2	RPN1464	POLYFOAM	[M]
P3	RPFX0005	MIRAMAT BAG	[M]
		ACCESSORIES	
A1	EUR7502XF0	REMOTE CONTROL	[M]
A1-1	UR75EC0103D	R/C BATTERY COVER	[M]
A2	RJA0065-1D	AC CORD	[M] ⚠
A3	RQT6183-1P	O/I BOOK (EN)	[M]
A3	RQT6184-1C	O/I BOOK (CF)	[M]PC
A4	RSA0006-J	FM ANT	[M]
A5	RSA0012	AM LOOP ANTENNA	[M]
A6	RJL1P016B15A	VIDEO CABLE	[M]
A7	RFA0631A-K	LEG RUBBER (SPEAKER)	[M]

18.5. Packaging



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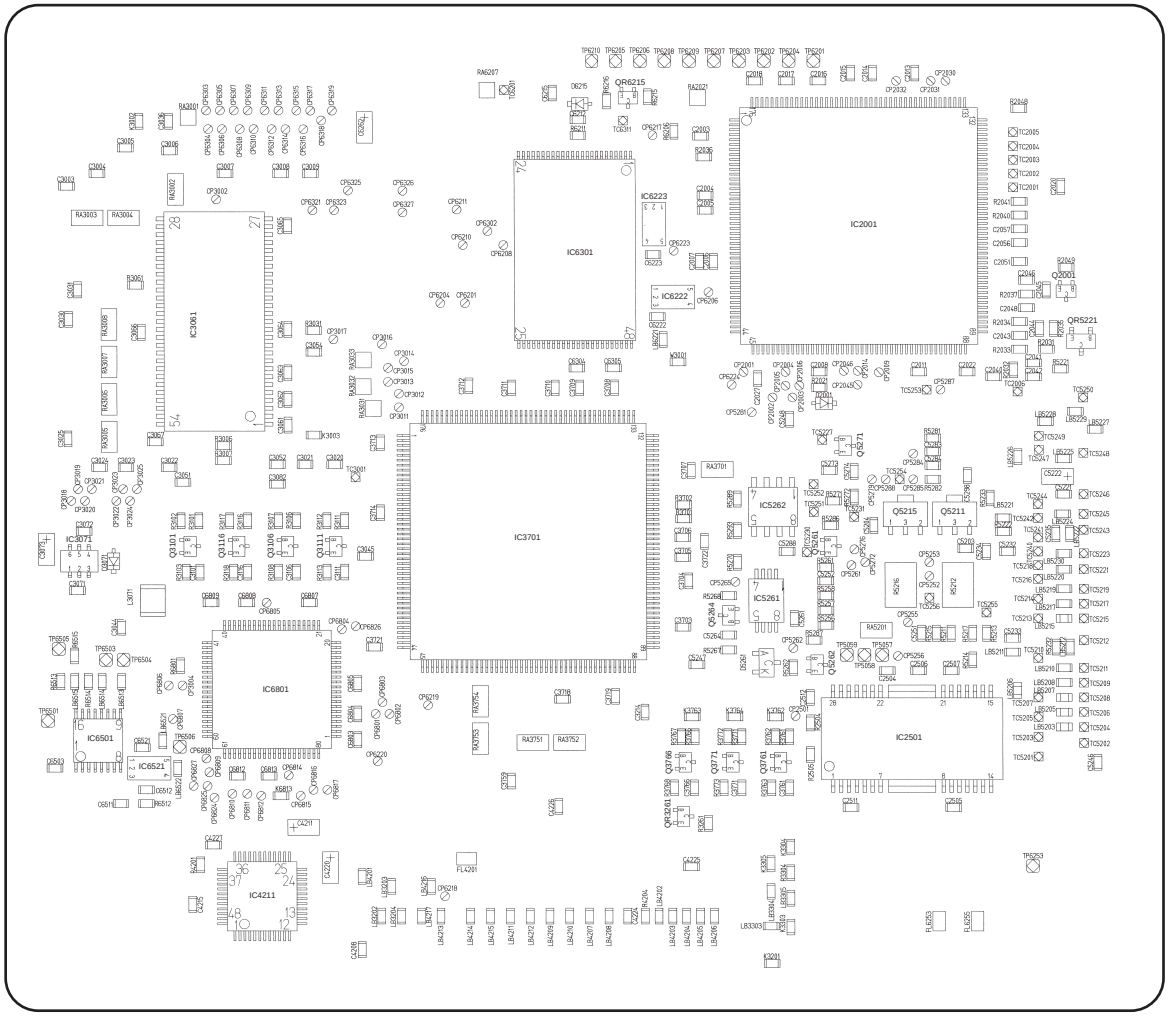
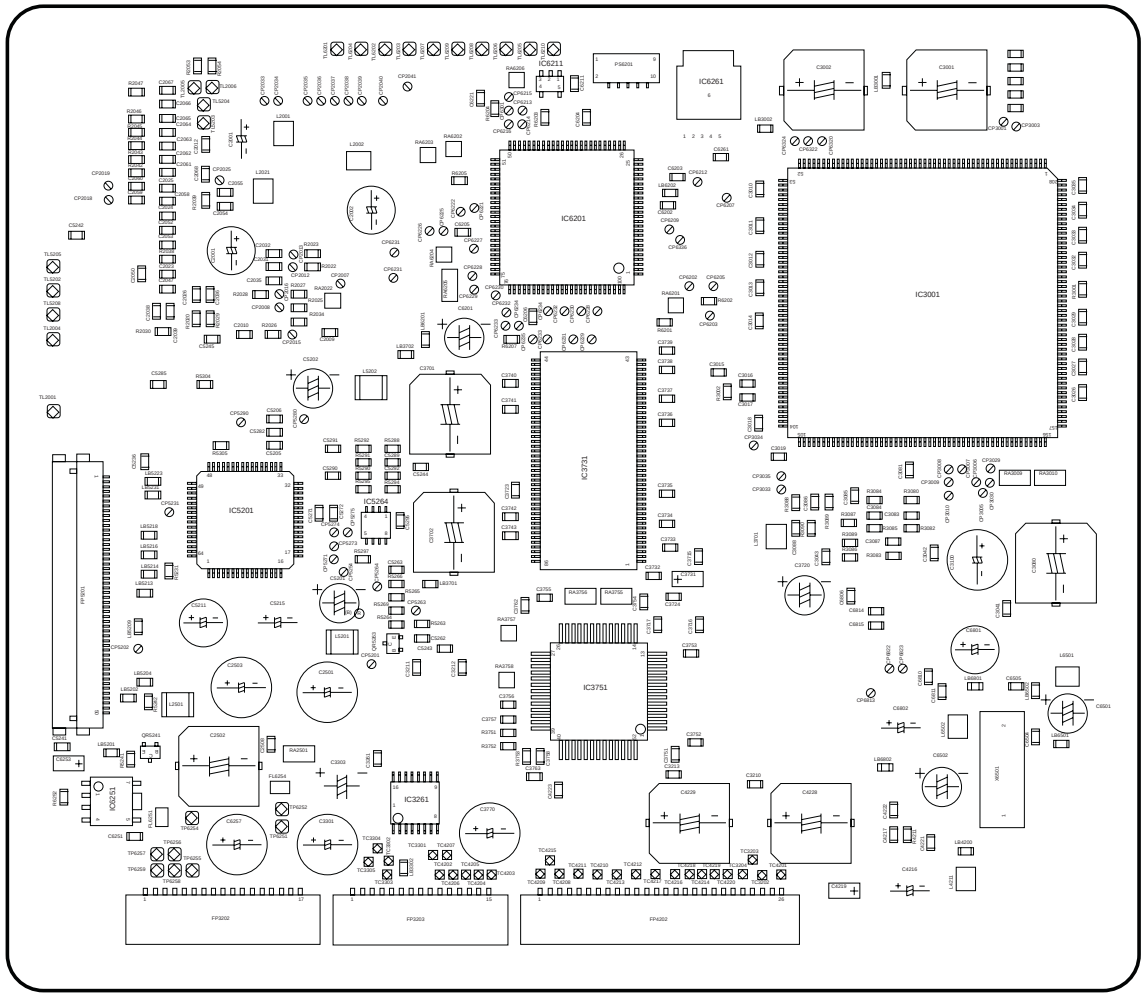
B DVD B/E MODULE (1/2) P.C.B. (REP3380A)



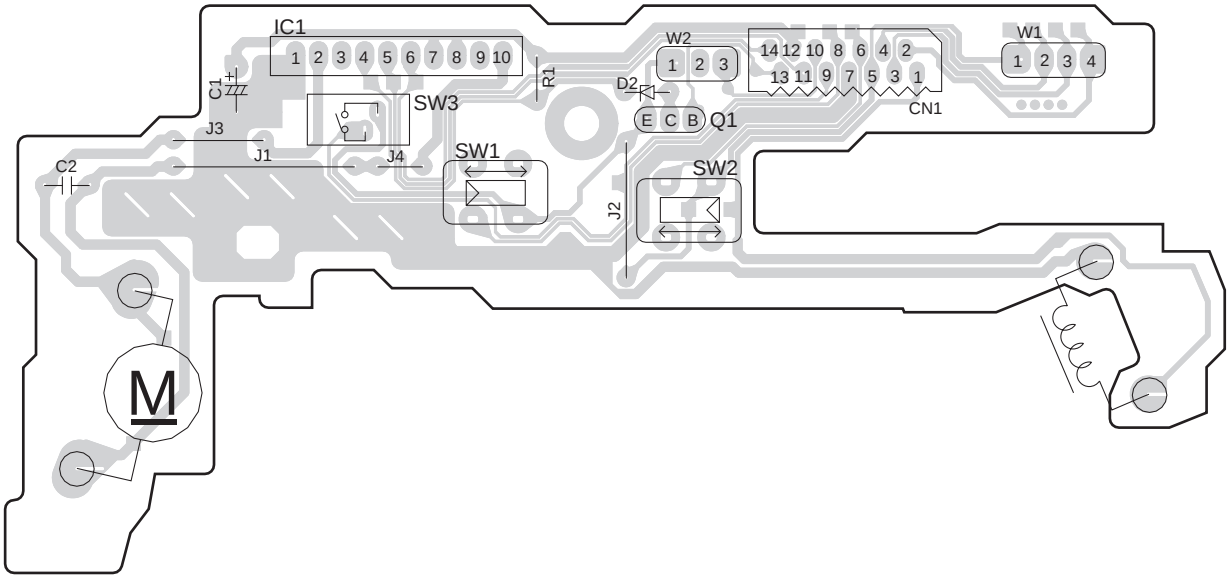
A B C D E F G

1 2 3 4 5 6 7 8 9

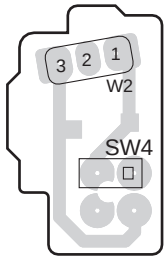
B DVD Module 2 (Side: 2/2) P.C.B (REP3380A)



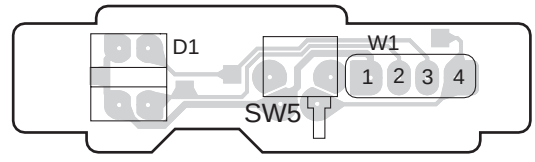
G CD LOADING P.C.B (REP2578A-N)



I CD DETECT P.C.B (REP2578A-N)



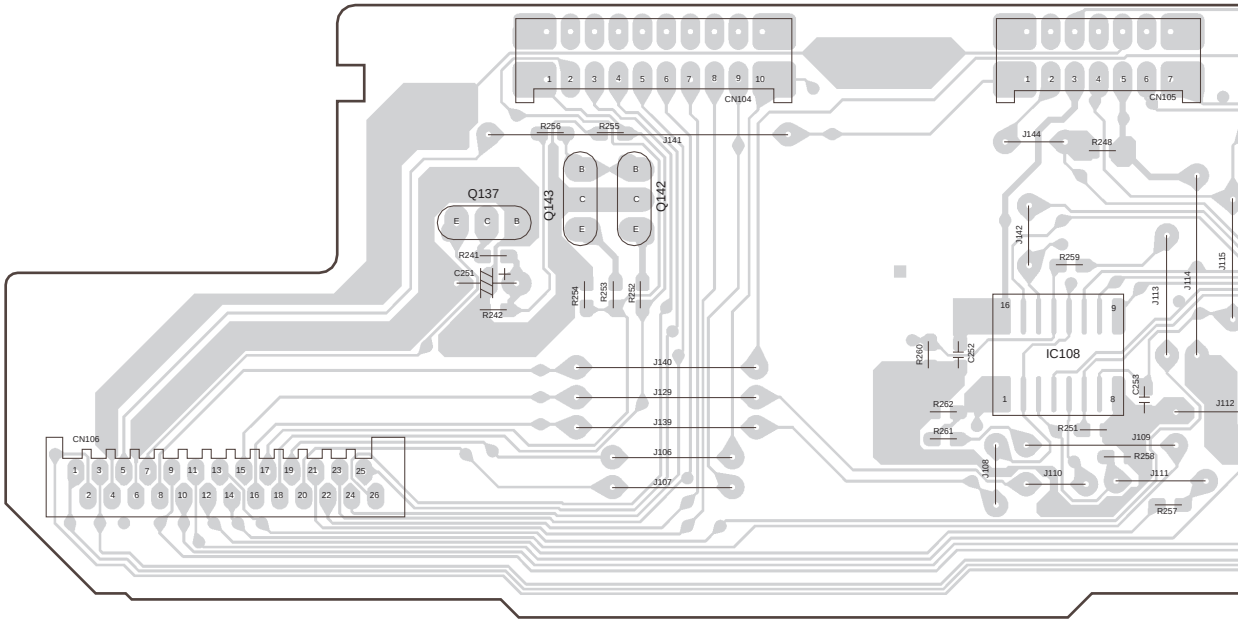
H SPINDLE POSITION P.C.B (REP2578A-N)



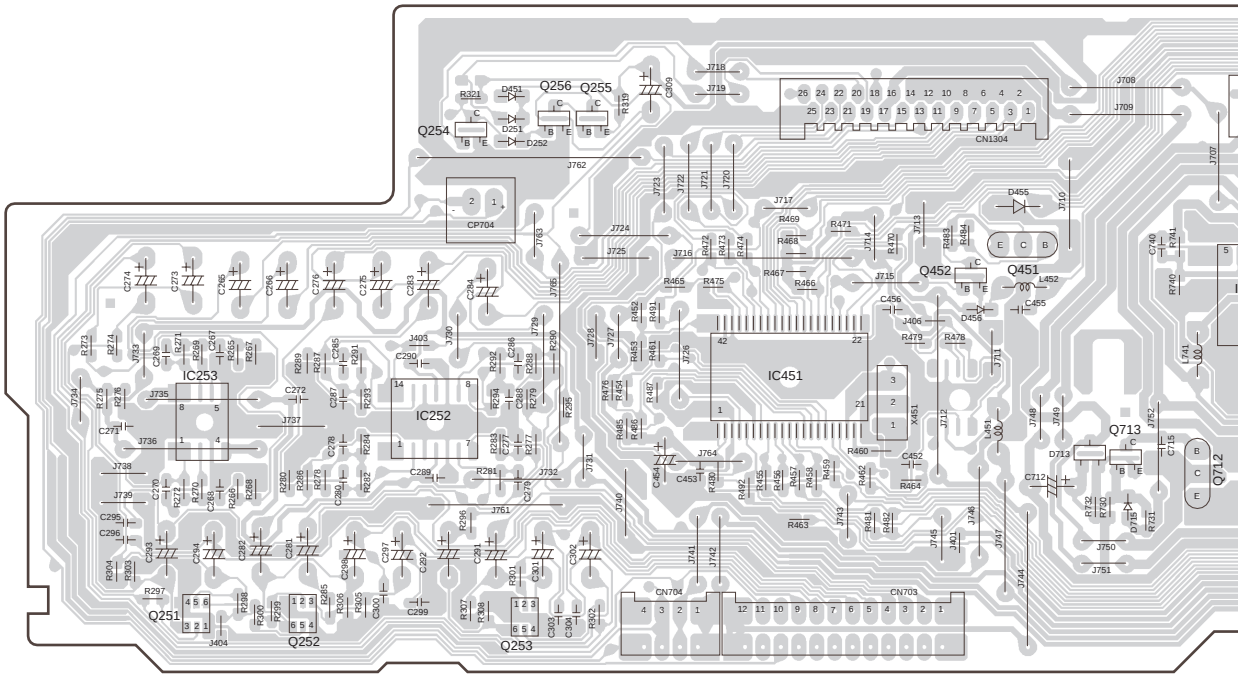
A B C D E F G

1 2 3 4 5 6 7 8 9

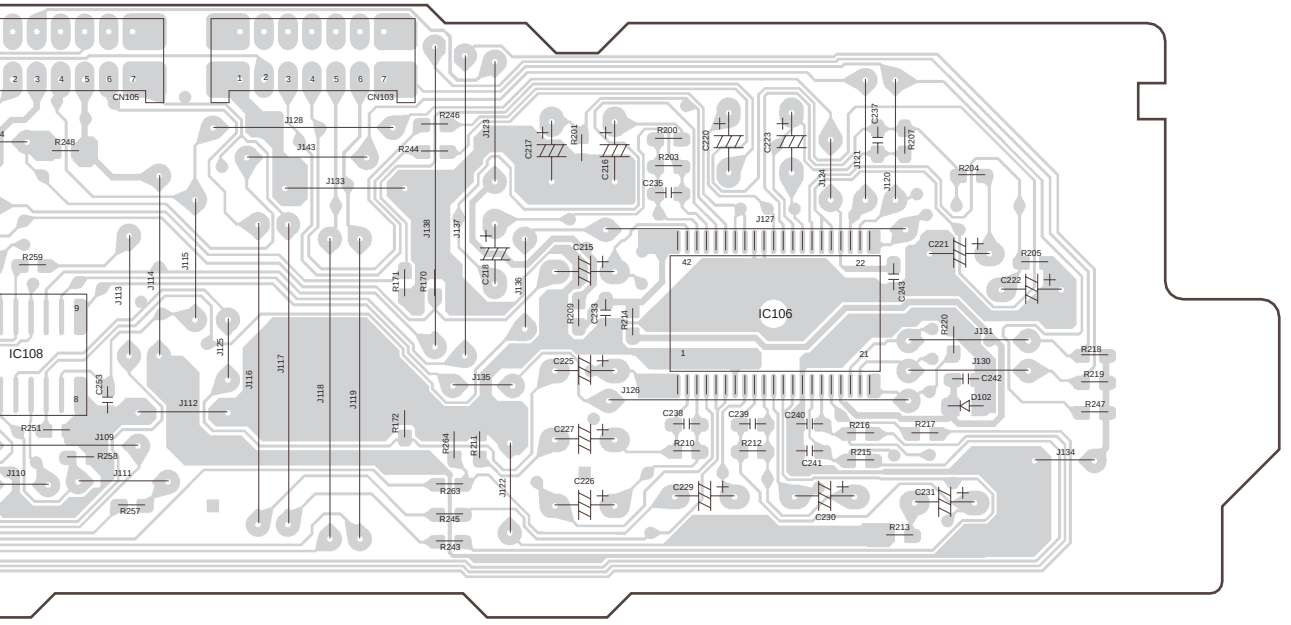
D ASP P.C.B. (REP3376A)

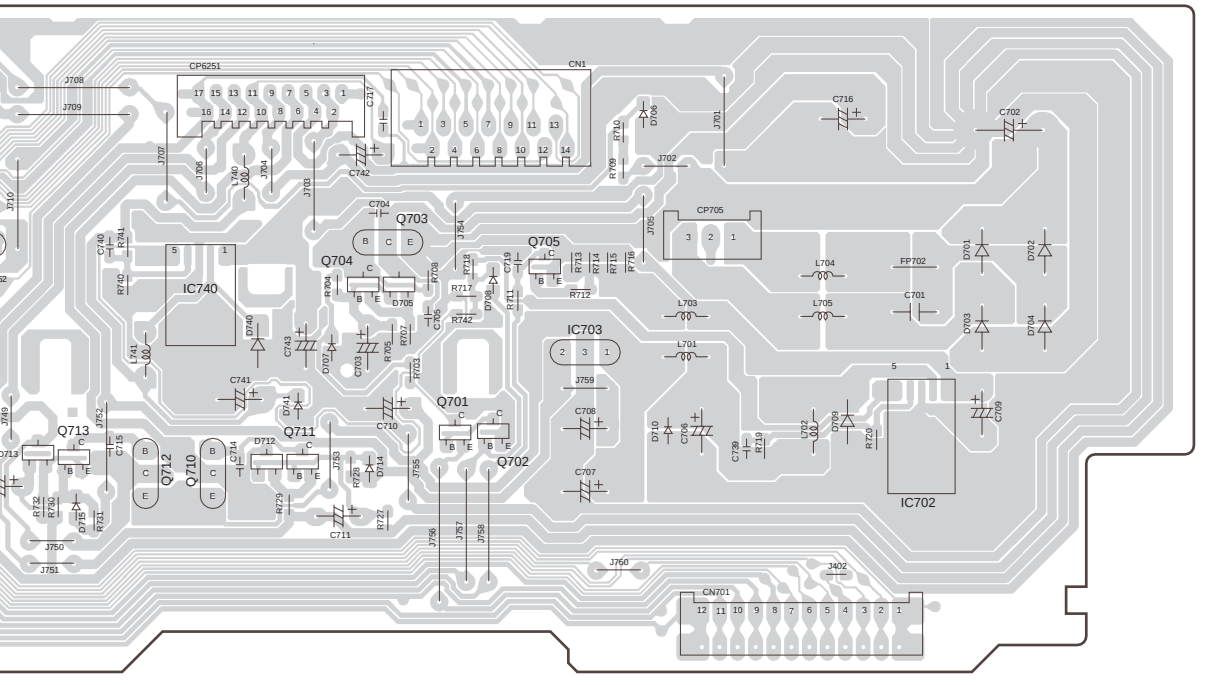


F DVD REG P.C.B. (REP3376A)

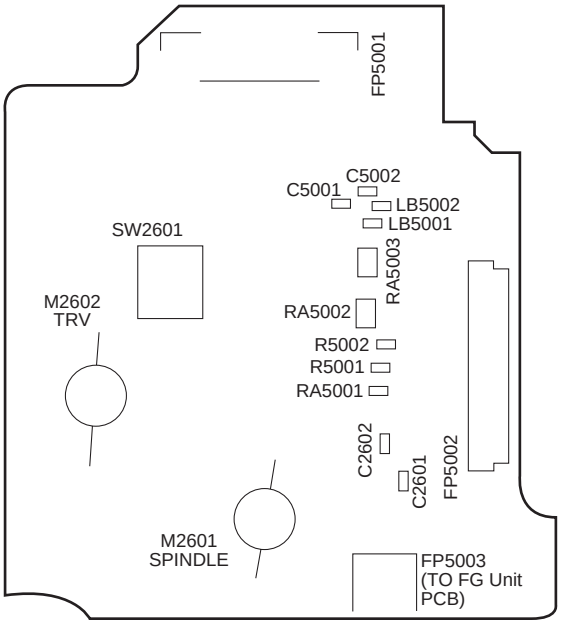


G H I J K L M


IC106
IC108
CN105
CN103

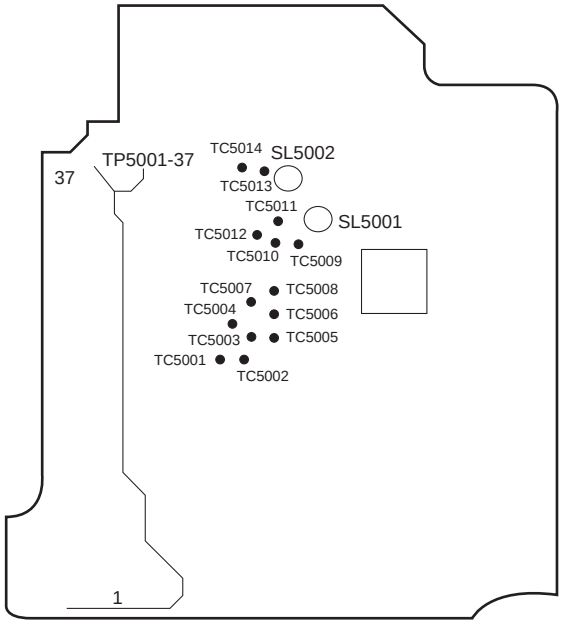

CP6251
CN1
IC740
IC703
IC702
Q703
Q704
Q705
Q701
Q702
Q710
Q711
Q712
Q713
CP705
CN701

A FRONT END P.C.B. (REP3382A-N)



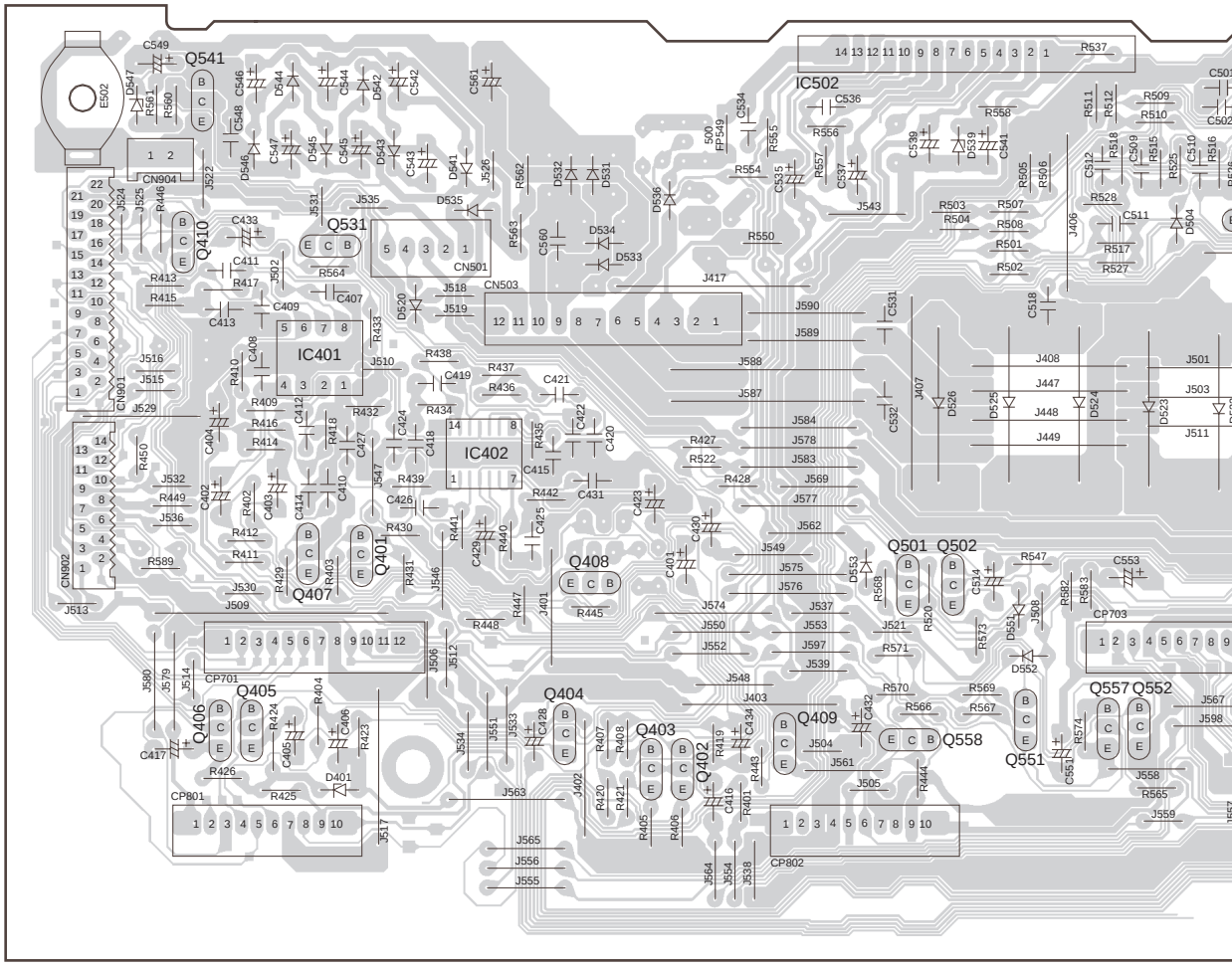
(SIDE: A)

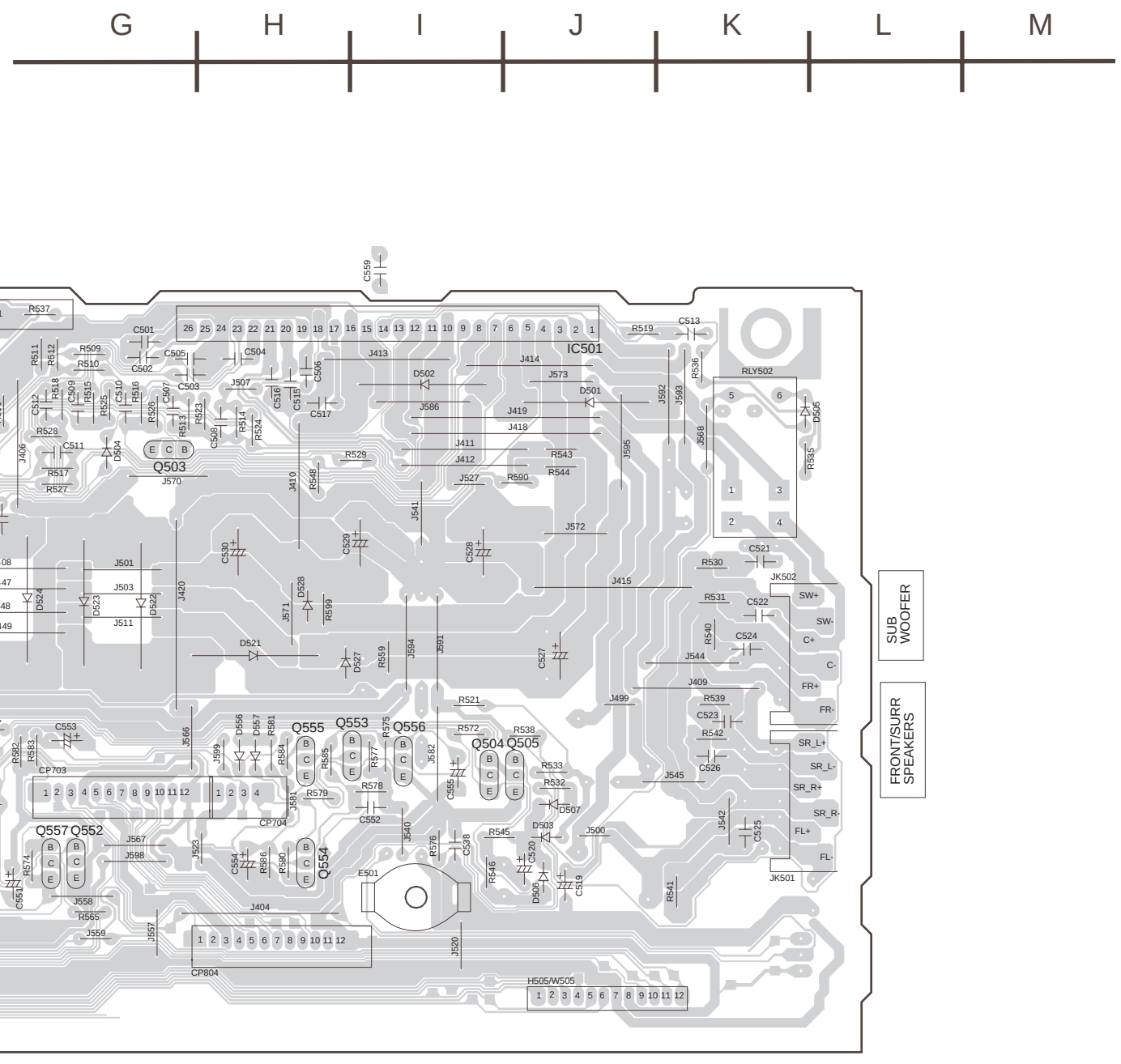
A FRONT END P.C.B. (REP3382A-N)



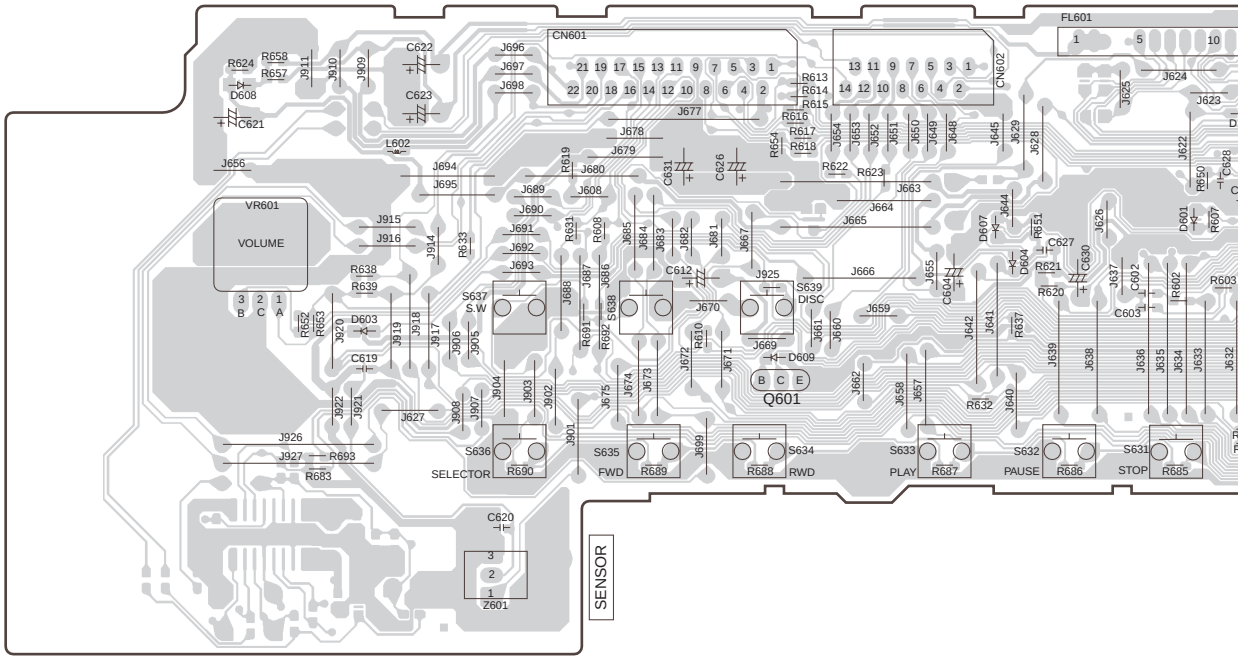
(SIDE: B)

M MAIN P.C.B. (REP3282B)

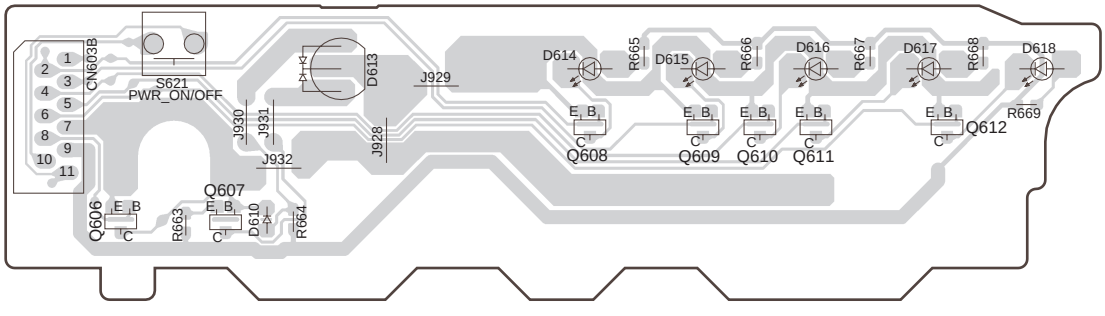


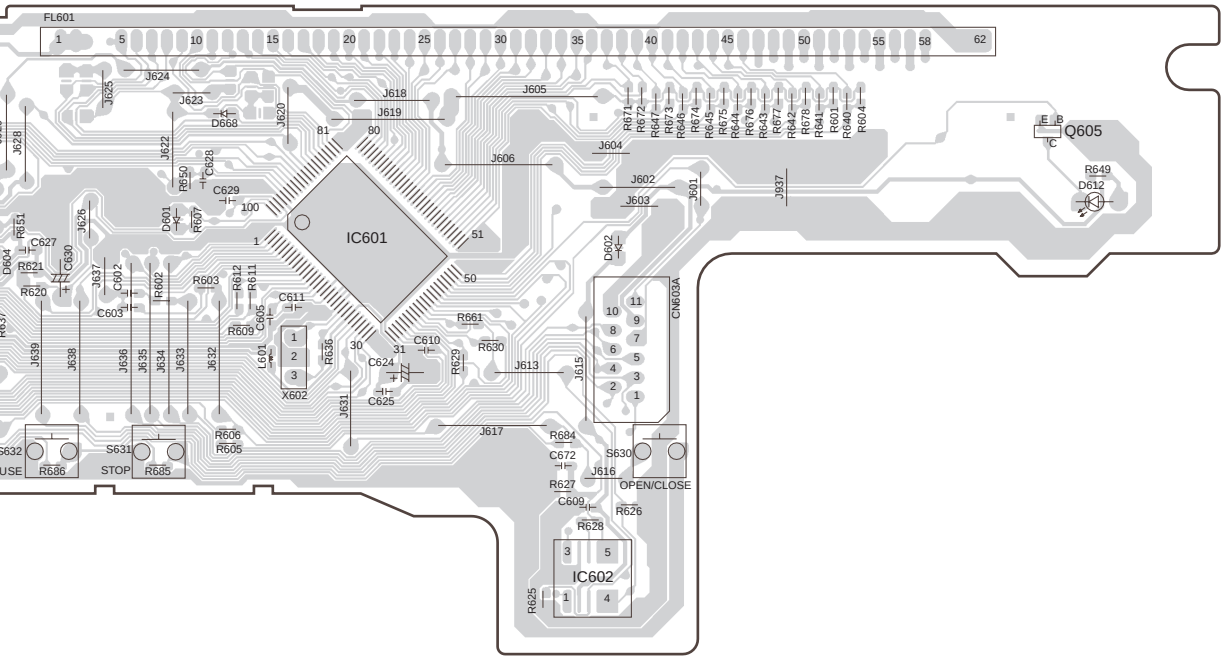

G
H
I
J
K
L
M
IC501
Q503
Q555
Q553
Q556
Q504
Q505
Q557
Q552
Q554
E501
RLY502
JK502
JK501
CP703
CP704
CP804
H505/W505
SUB WOOFER
FRONT/SURR SPEAKERS
SW+
SW-
C+
C-
FR+
FR-
SR_L+
SR_L-
SR_R+
SR_R-
FL+
FL-

J PANEL P.C.B. (REP3284A)

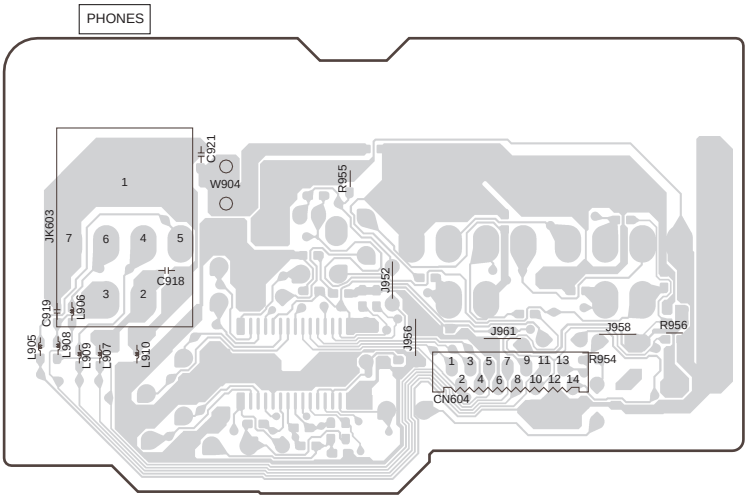


K POWER SWITCH P.C.B. (REP3284A)

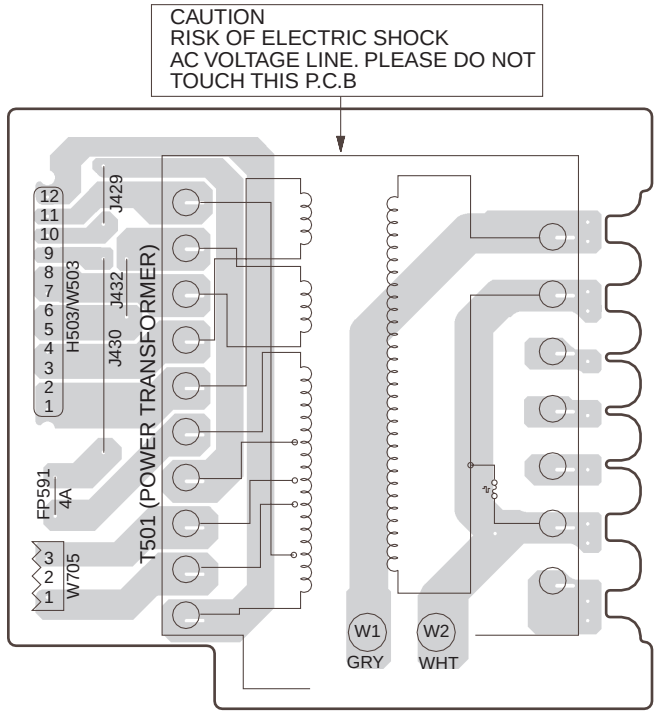




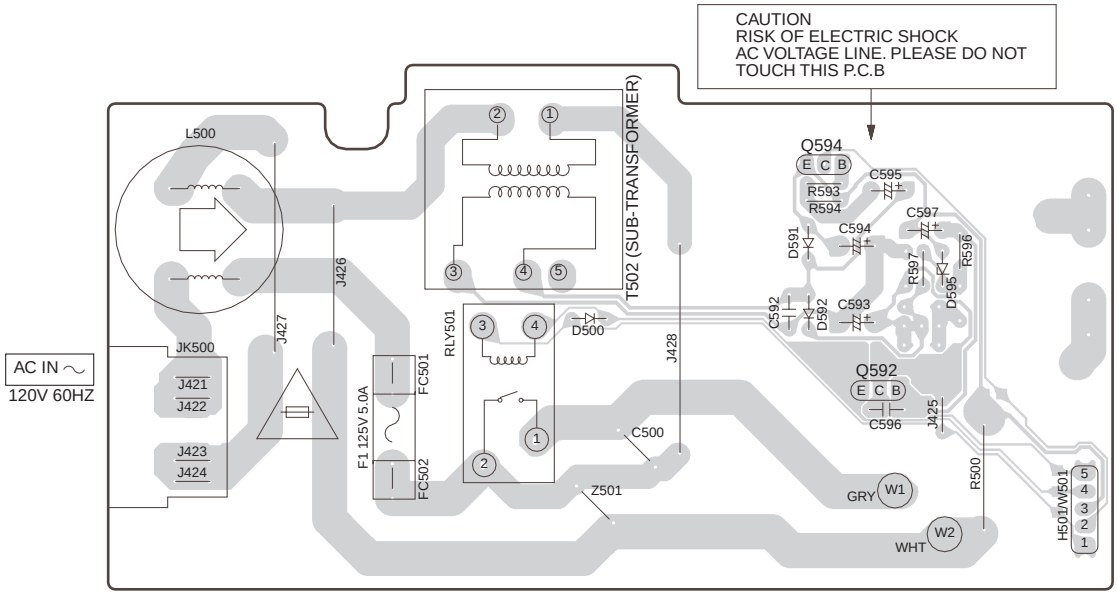
L HEADPHONE P.C.B. (REP3284A)



N SUB-TRANSFORMER P.C.B. (REP3282B)



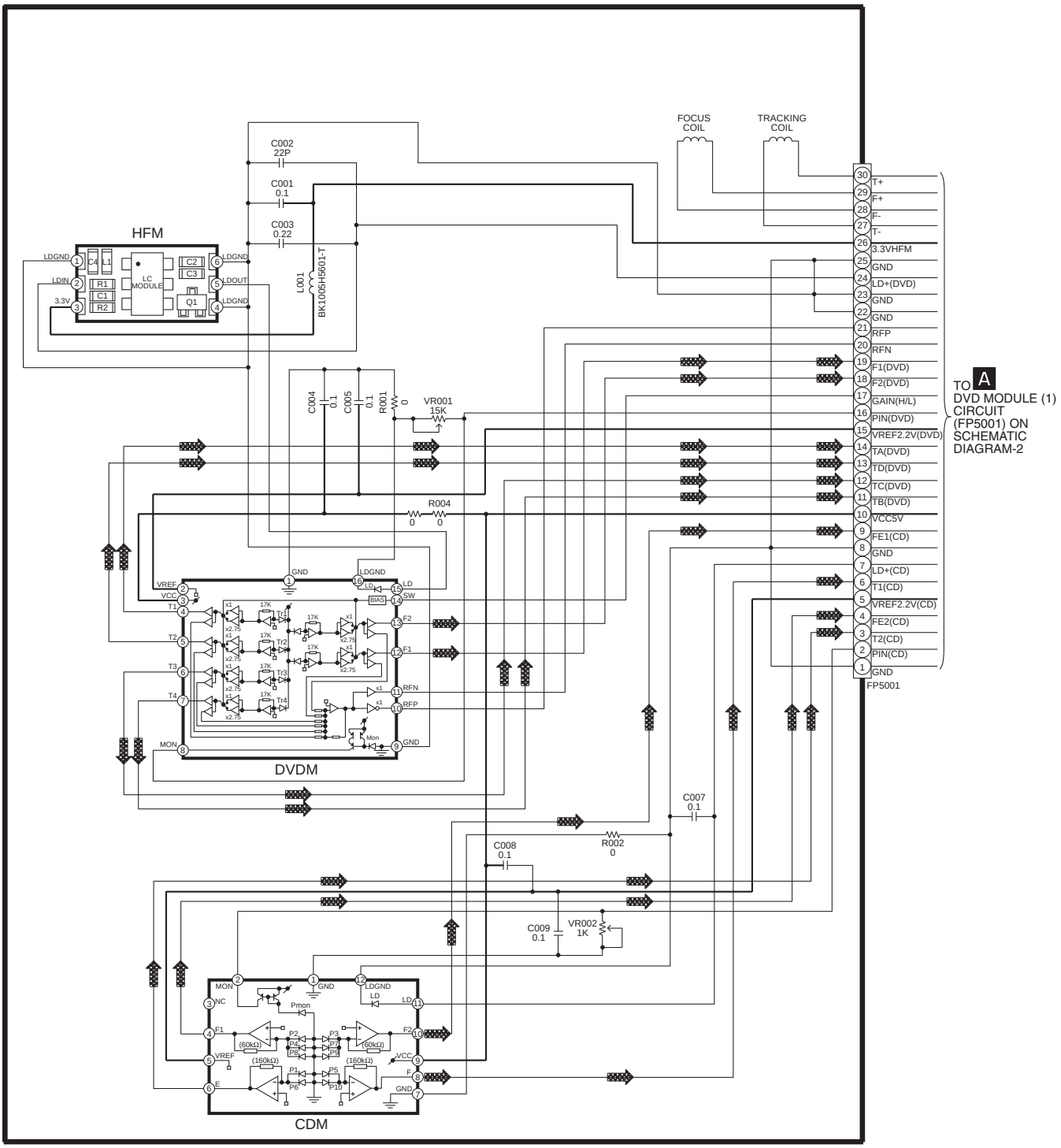
O AC TRANSFORMER P.C.B. (REP3282B)



SCHEMATIC DIAGRAM - 1

—— : +B SIGNAL LINE ▰▰▰ : CD-DA SIGNAL LINE

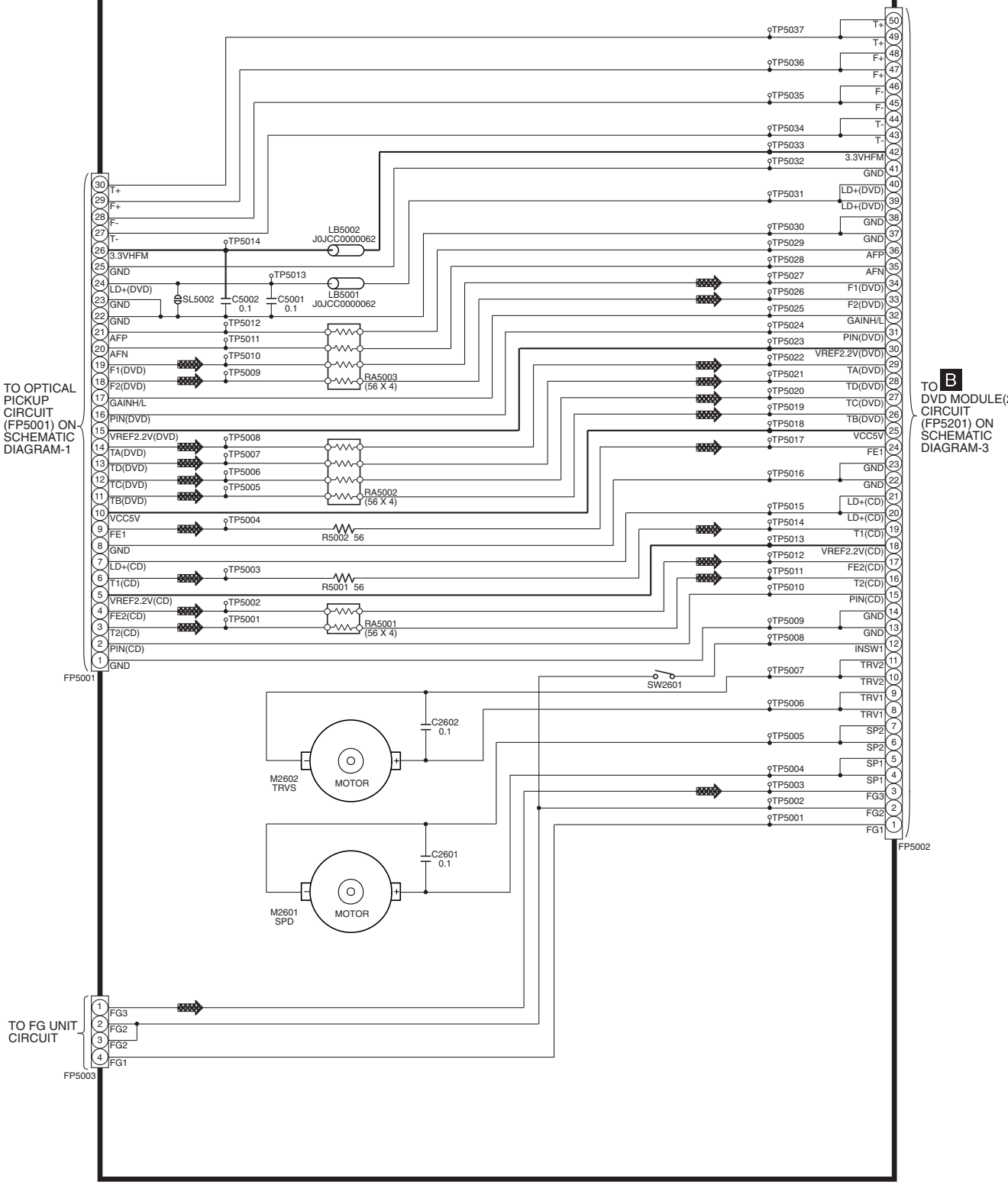
OPTICAL PICKUP UNIT



SCHEMATIC DIAGRAM - 2

—— : +B SIGNAL LINE ⇒ : CD-DA SIGNAL LINE

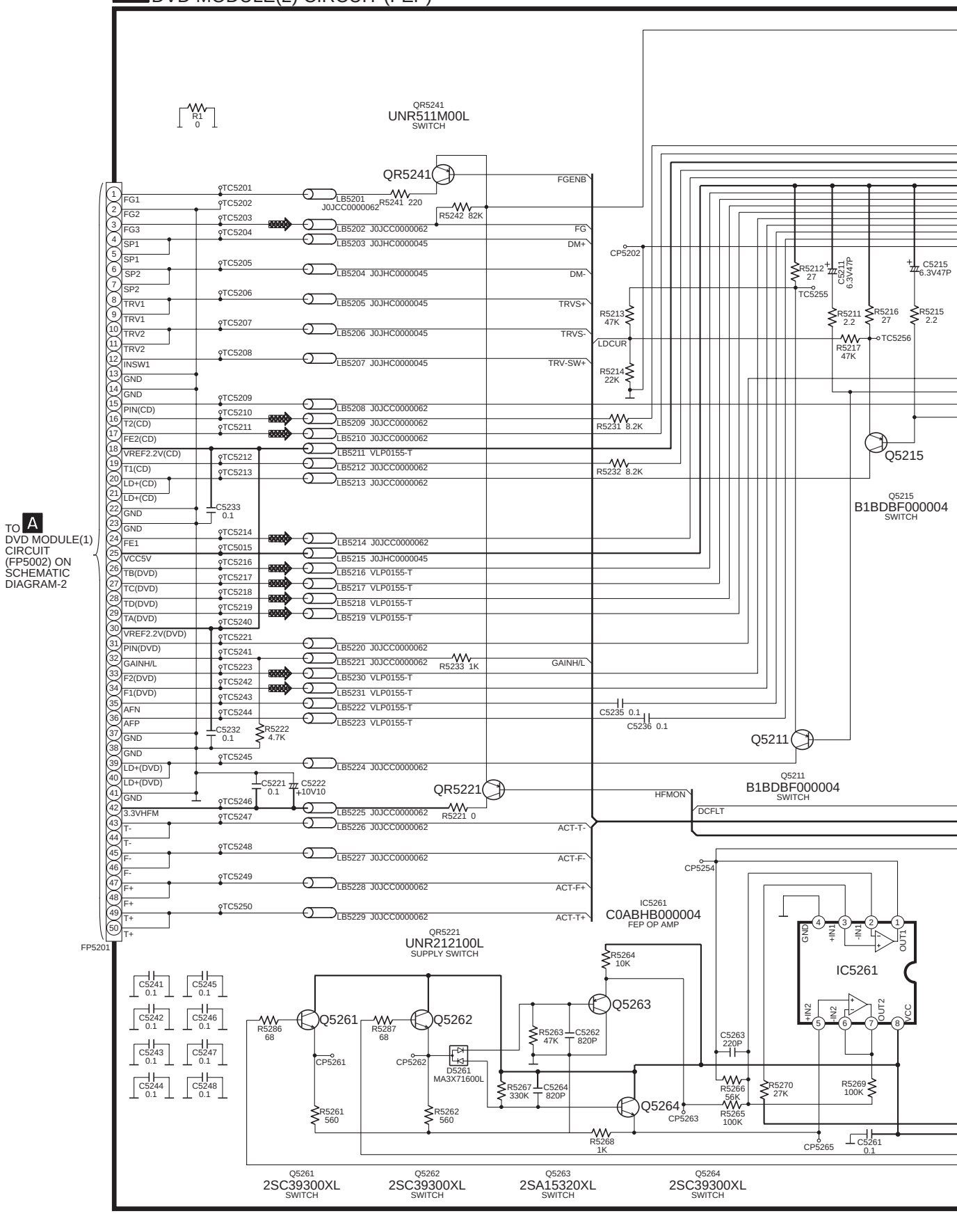
A DVD MODULE(1) CIRCUIT (RELAY)



SCHEMATIC DIAGRAM - 3

—— : +B SIGNAL LINE ⇒ : CD-DA SIGNAL LINE

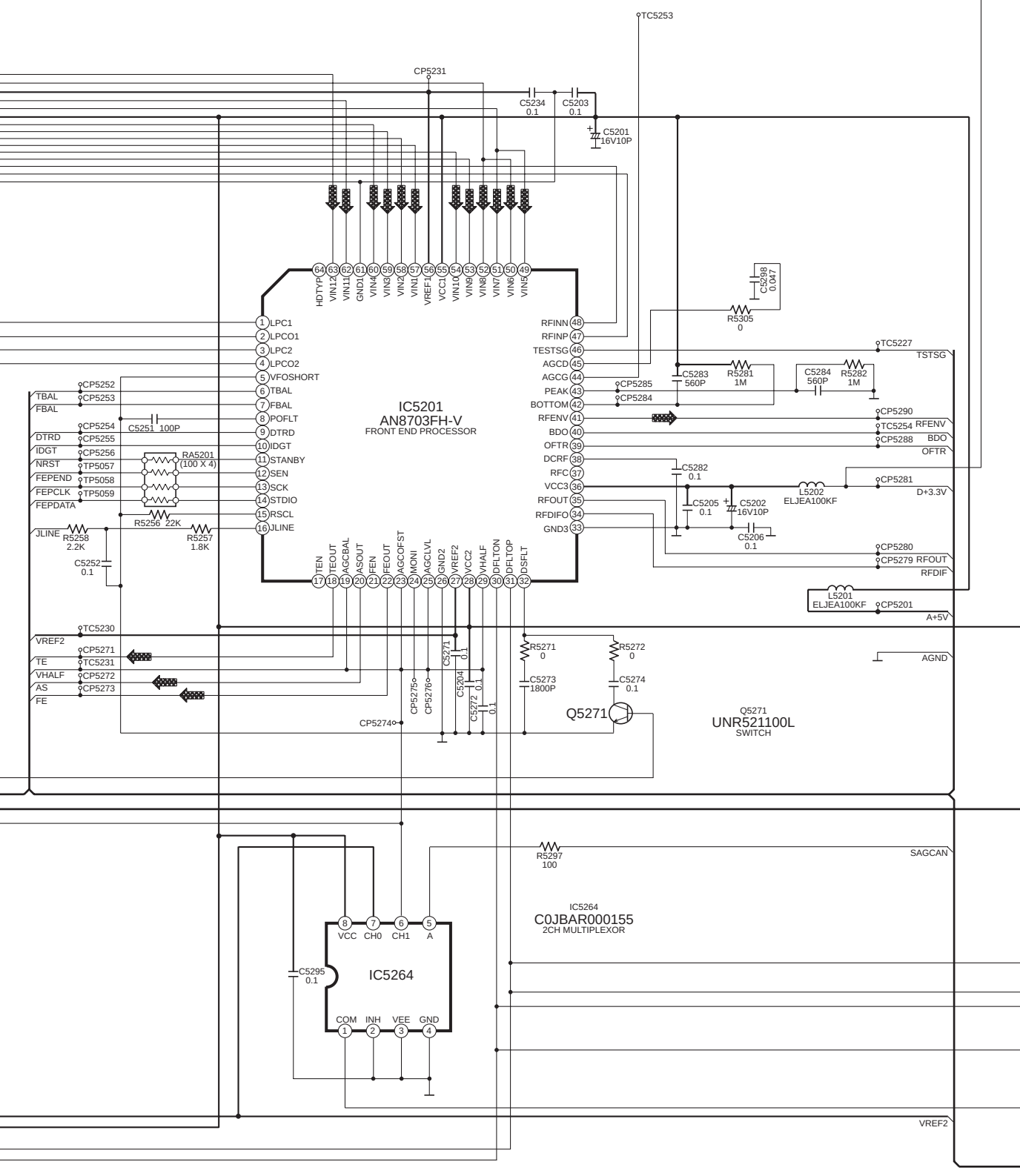
B DVD MODULE(2) CIRCUIT (FEP)



SCHEMATIC DIAGRAM - 4

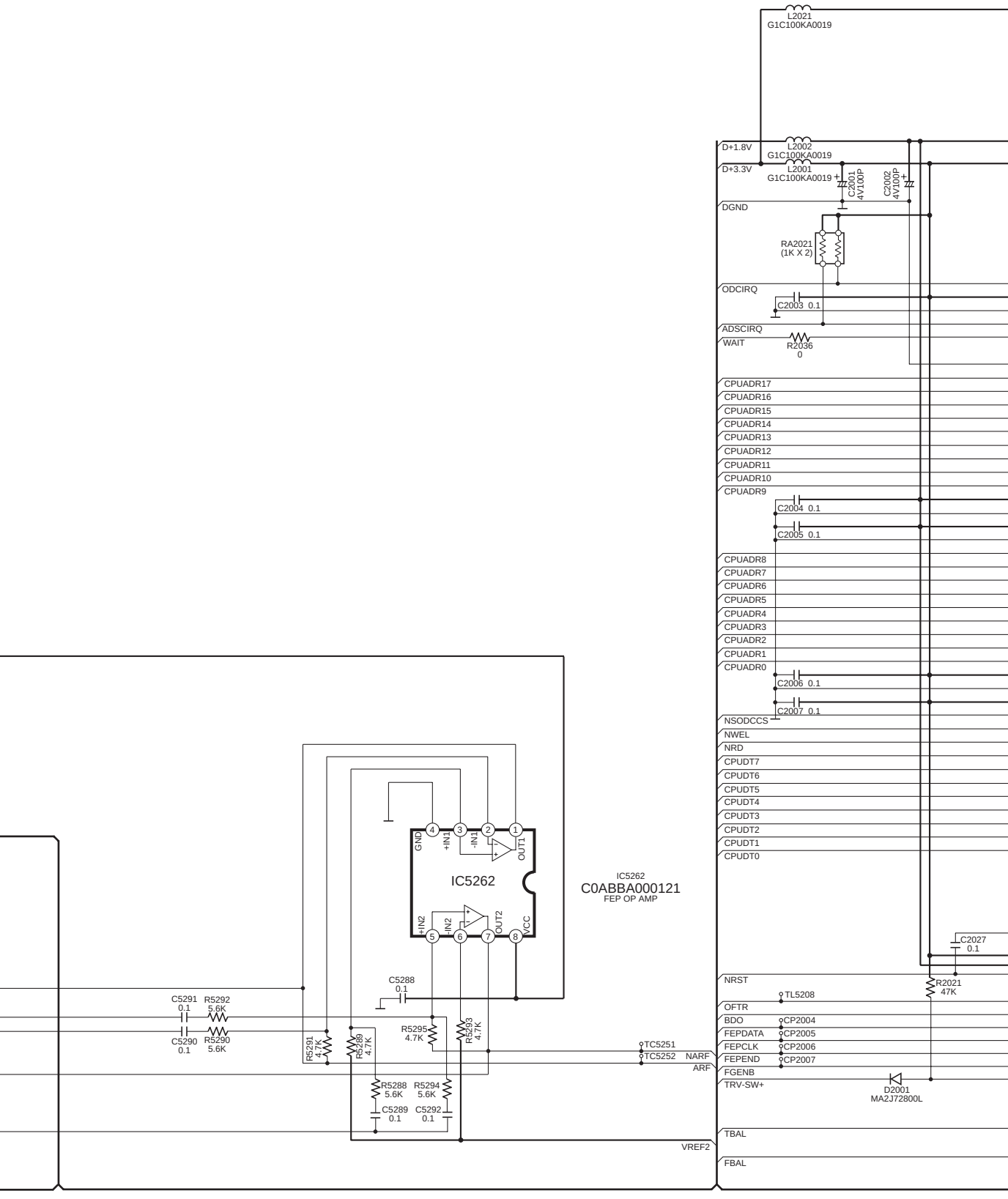
B DVD MODULE(2) CIRCUIT (FEP)

—— : +B SIGNAL LINE ▰▰▰▰ : CD-DA SIGNAL LINE



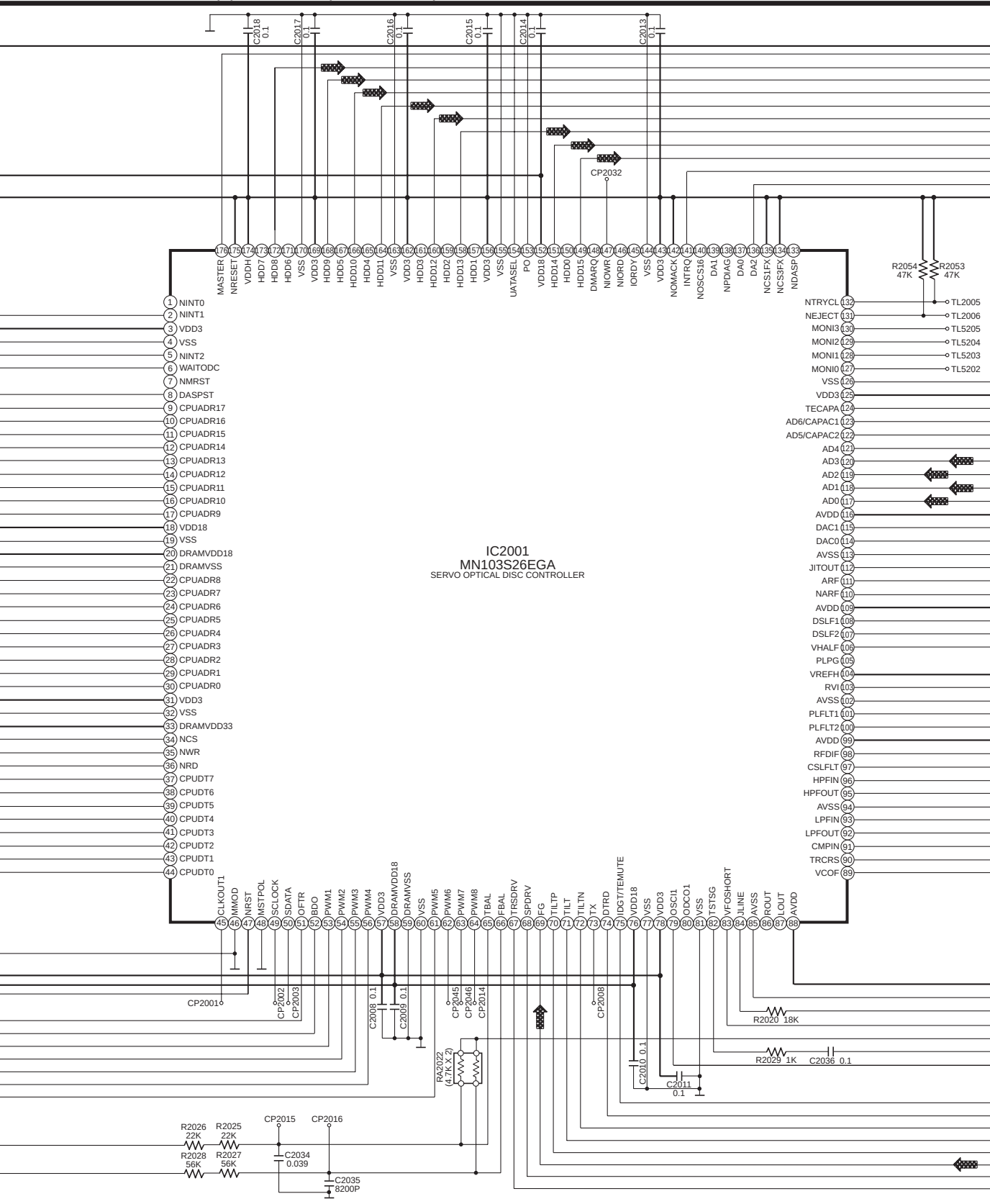
B : +B SIGNAL LINE

DVD MODULE(2) CIRCUIT (FEP)



: +B SIGNAL LINE : CD-DA SIGNAL LINE

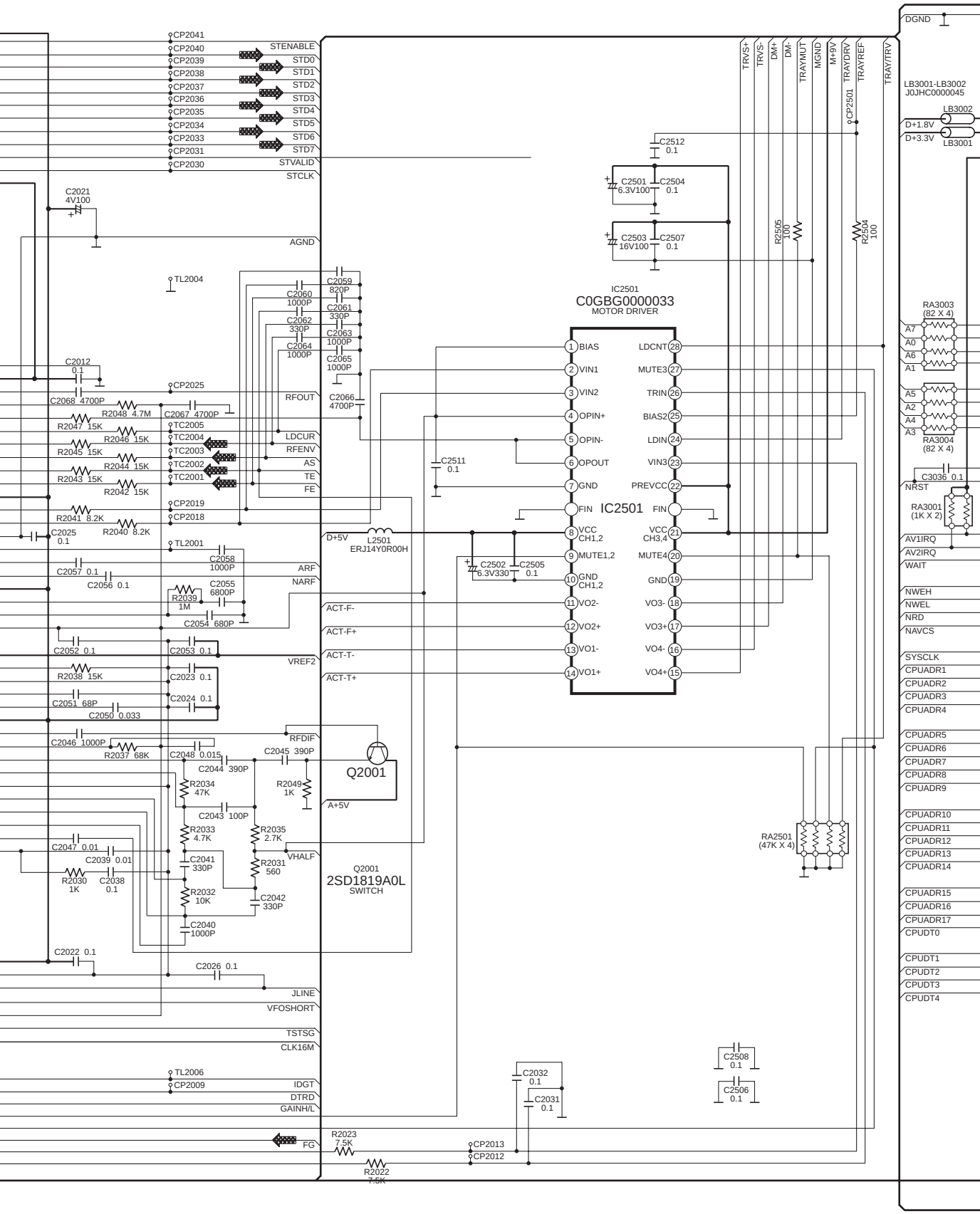
B DVD MODULE(2) CIRCUIT (SODC/DRV)



SCHEMATIC DIAGRAM - 7

: +B SIGNAL LINE : CD-DA SIGNAL LINE

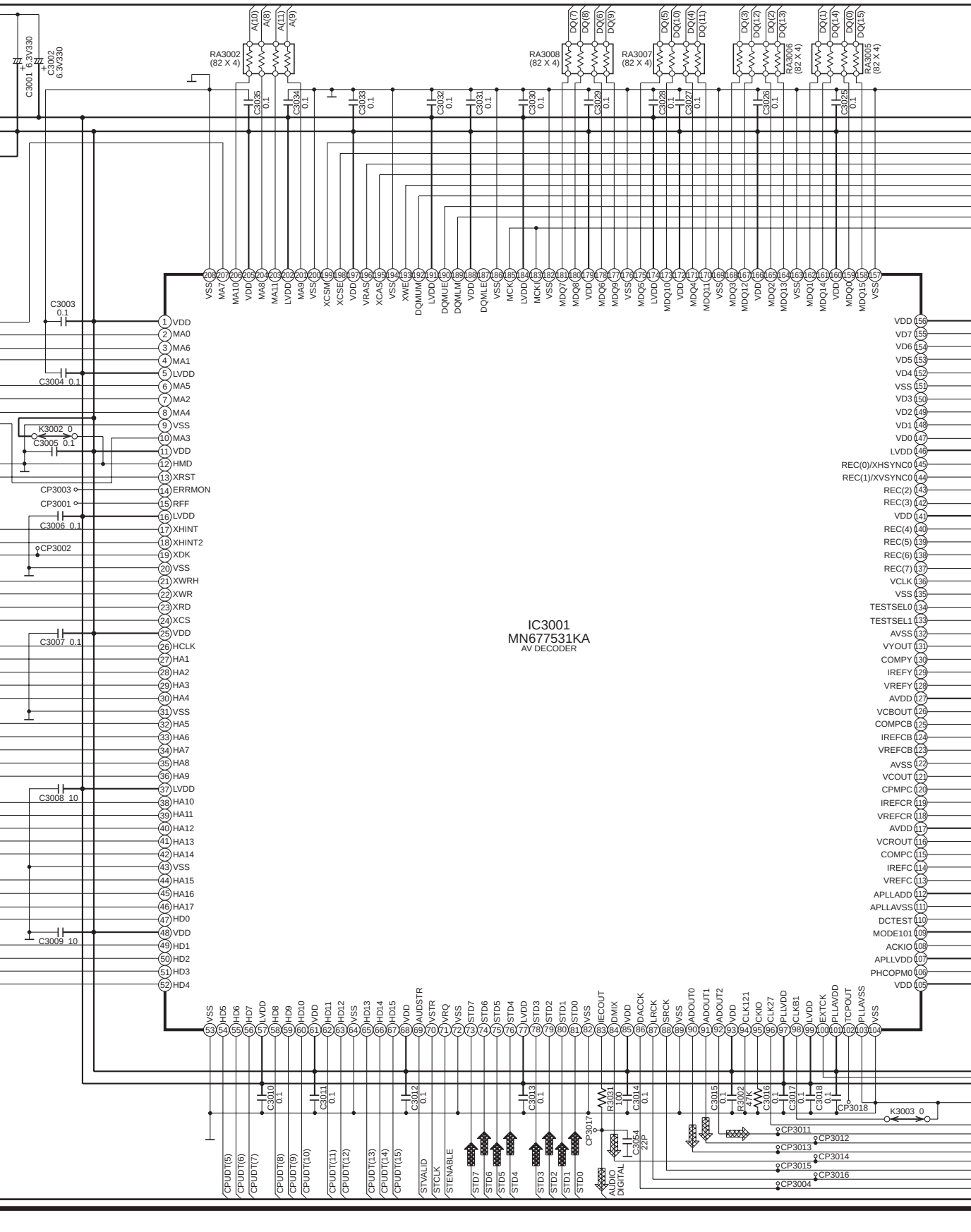
B DVD MODULE(2) CIRCUIT (SODC/DRV)



SCHEMATIC DIAGRAM - 8

: +B SIGNAL LINE : CD-DA SIGNAL LINE : DVD VIDEO SIGNAL LINE : DVD AUDIO SIGNAL LINE

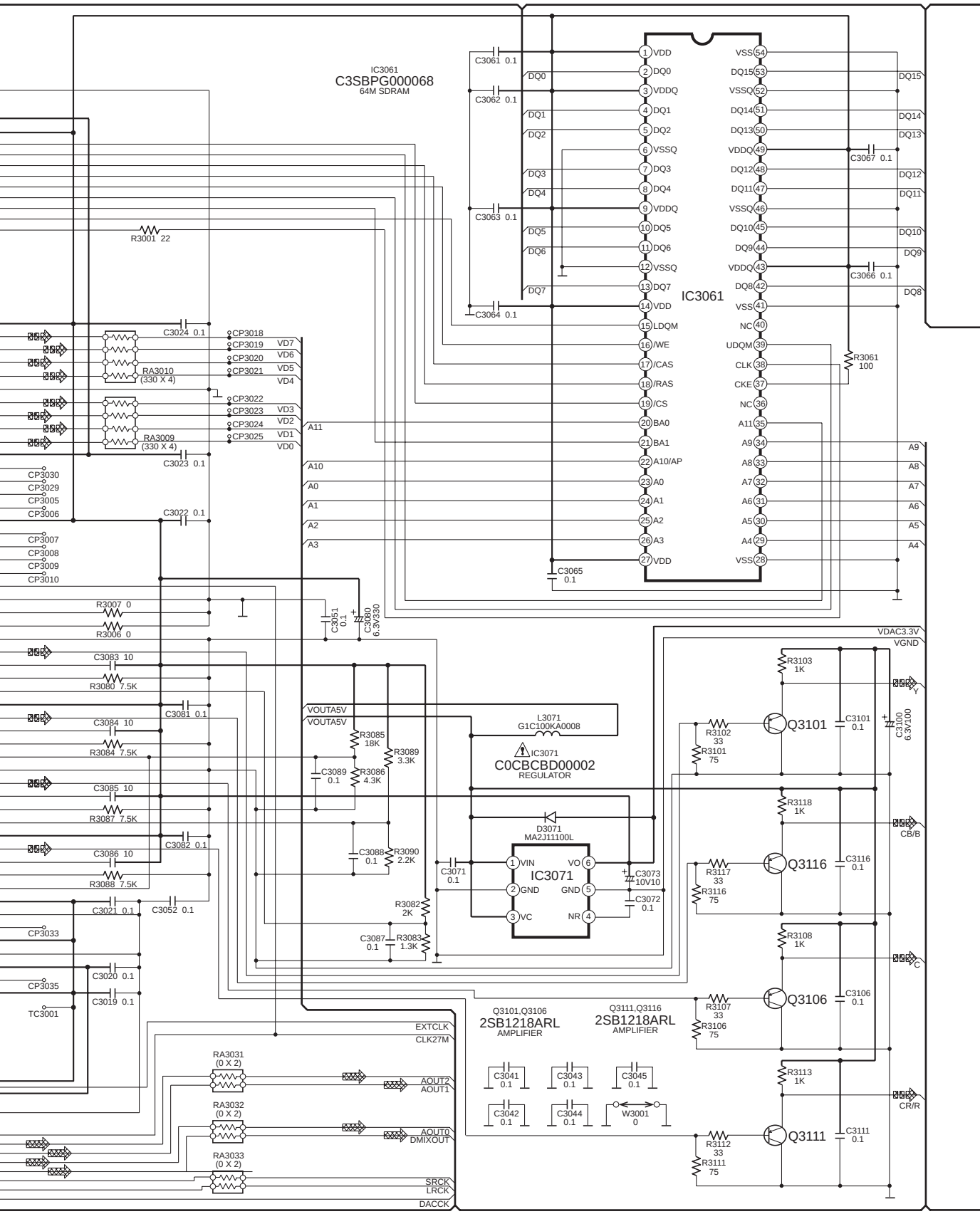
B DVD MODULE(2) CIRCUIT (AVDEC)



SCHEMATIC DIAGRAM - 9

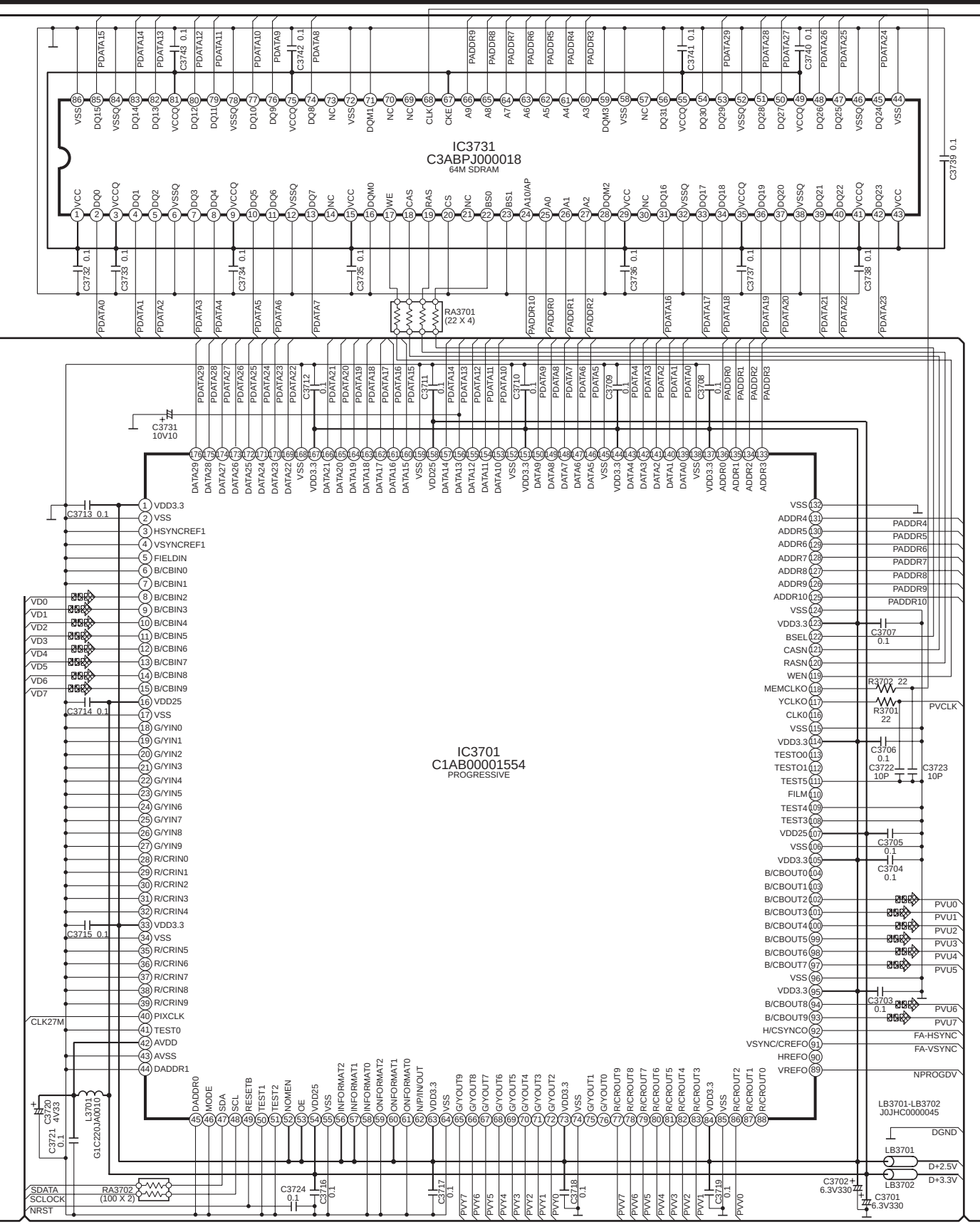
: +B SIGNAL LINE : DVD VIDEO SIGNAL LINE : DVD AUDIO SIGNAL LINE

B DVD MODULE(2) CIRCUIT (AVDEC)



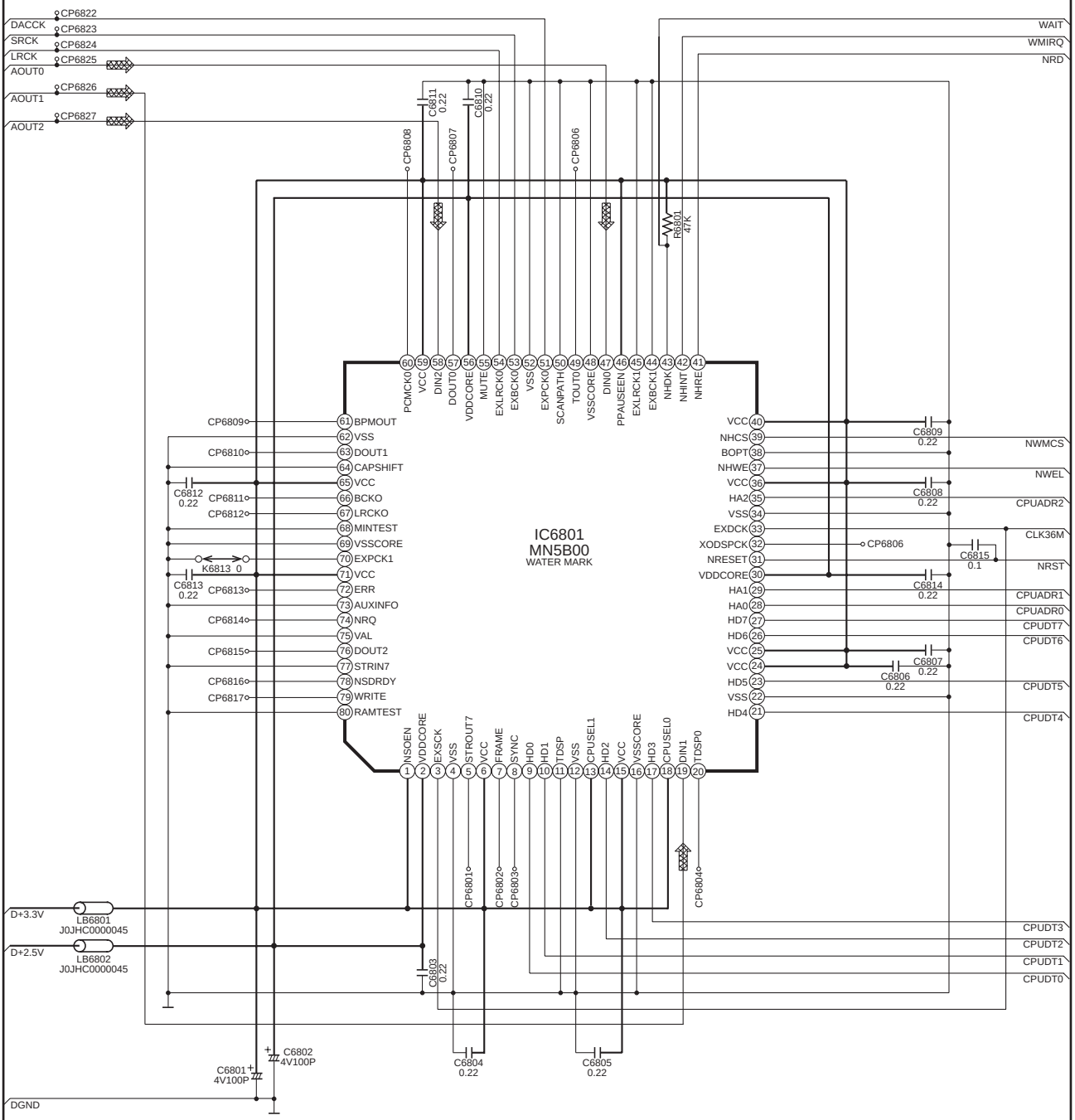
: +B SIGNAL LINE : DVD VIDEO SIGNAL LINE

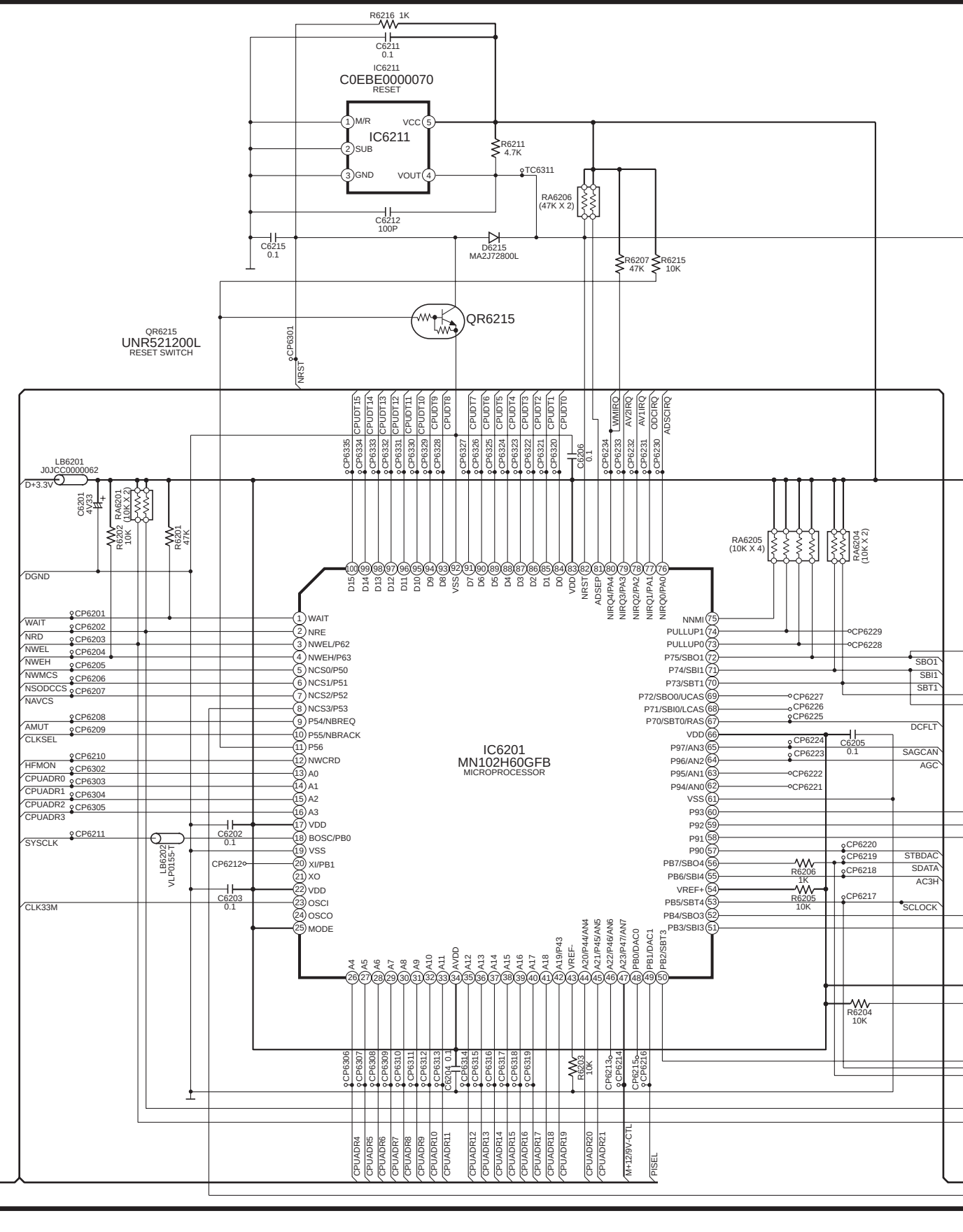
B DVD MODULE(2) CIRCUIT (PROGRESSIVE)



B DVD MODULE(2) CIRCUIT (WM)

—— : +B SIGNAL LINE ⋙ : DVD AUDIO SIGNAL LINE

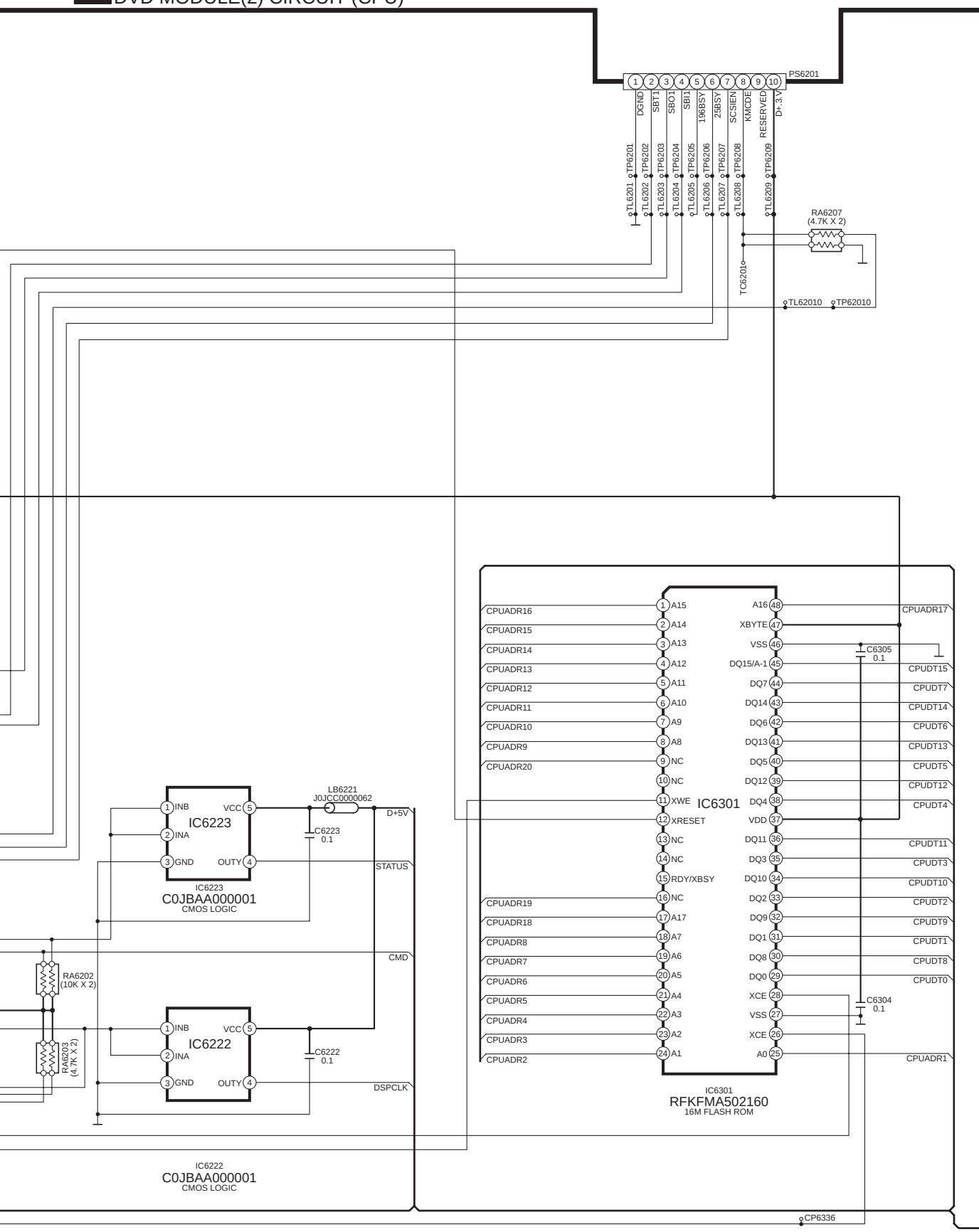



R6216 1K
C6211 0.1
IC6211
C0EBE0000070
RESET
M/R
SUB
GND
VCC
VOUT
IC6211
R6211 4.7K
TC6311
RA6206 (47K X 2)
C6212 100P
C6215 0.1
D6215 MA2J72800L
R6207 47K
R6215 10K
QR6215
UNR521200L
RESET SWITCH
CP6301
NRST
LB6201 J0JCC0000062
D+3.3V
C6201 4V33
RA6201 10K X 2
R6202 10K
R6201 47K
DGND
CPUDT15
CPUDT14
CPUDT13
CPUDT12
CPUDT11
CPUDT10
CPUDT9
CPUDT8
CPUDT7
CPUDT6
CPUDT5
CPUDT4
CPUDT3
CPUDT2
CPUDT1
CPUDT0
WMIRQ
AV2IRQ
AV1IRQ
ODCIRQ
ADSCIRQ
C6206 0.1
RA6205 (10K X 4)
RA6204 (10K X 2)
D15 D14 D13 D12 D11 D10 D9 D8 VSS D7 D6 D5 D4 D3 D2 D1 D0 VDD NRST ADSEP NIRQ4/PA4 NIRQ3/PA3 NIRQ2/PA2 NIRQ1/PA1 NIRQ0/PA0
WAIT
NRE
NWEL/P62
NWEH/P63
NCS0/P50
NCS1/P51
NCS2/P52
NCS3/P53
P54/NBREQ
P55/NBRACK
P56
NWCRD
A0
A1
A2
A3
VDD
BOSC/PB0
VSS
XI/PB1
XO
VDD
OSCI
OSCO
MODE
NNMI
PULLUP1
PULLUP0
P75/SBO1
P74/SBI1
P73/SBT1
P72/SBO0/UCAS
P71/SBI0/LCAS
P70/SBT0/RAS
VDD
P97/AN3
P96/AN2
P95/AN1
P94/AN0
VSS
P93
P92
P91
P90
PB7/SBO4
PB6/SBI4
VREF+
PB5/SBT4
PB4/SBO3
PB3/SBI3
IC6201
MN102H60GFB
MICROPROCESSOR
CP6201 WAIT
CP6202 NRD
CP6203 NWEL
CP6204 NWEH
CP6205 NWMCS
CP6206 NSODCCS
CP6207 NAVCS
CP6208 AMUT
CP6209 CLKSEL
CP6210 HFMON
CP6302 CPUADR0
CP6303 CPUADR1
CP6304 CPUADR2
CP6305 CPUADR3
CP6211 SYSCLK
LB6202 VLP0155-T
C6202 0.1
CP6212
C6203 0.1
CLK33M
CP6229
CP6228
SBO1
SBI1
SBT1
CP6227
CP6226
CP6225
DCFLT
CP6224
CP6223
C6205 0.1
SAGCAN
AGC
CP6222
CP6221
CP6220
CP6219
STBDAC
CP6218
SDATA
AC3H
R6206 1K
R6205 10K
CP6217
SCLOCK
R6204 10K
A4 A5 A6 A7 A8 A9 A10 A11 AVDD A12 A13 A14 A15 A16 A17 A18 A19/P43 VREF- A20/P44/AN4 A21/P45/AN5 A22/P46/AN6 A23/P47/AN7 PB0/DAC0 PB1/DAC1 PB2/SBT3
CP6306 CP6307 CP6308 CP6309 CP6310 CP6311 CP6312 CP6313 C6204 0.1 CP6314 CP6315 CP6316 CP6317 CP6318 CP6319
R6203 10K
CP6213 CP6214 CP6215 CP6216
CPUADR4 CPUADR5 CPUADR6 CPUADR7 CPUADR8 CPUADR9 CPUADR10 CPUADR11 CPUADR12 CPUADR13 CPUADR14 CPUADR15 CPUADR16 CPUADR17 CPUADR18 CPUADR19 CPUADR20 CPUADR21
M+12/9V-CTL
PISEL

SCHEMATIC DIAGRAM - 13

B : +B SIGNAL LINE

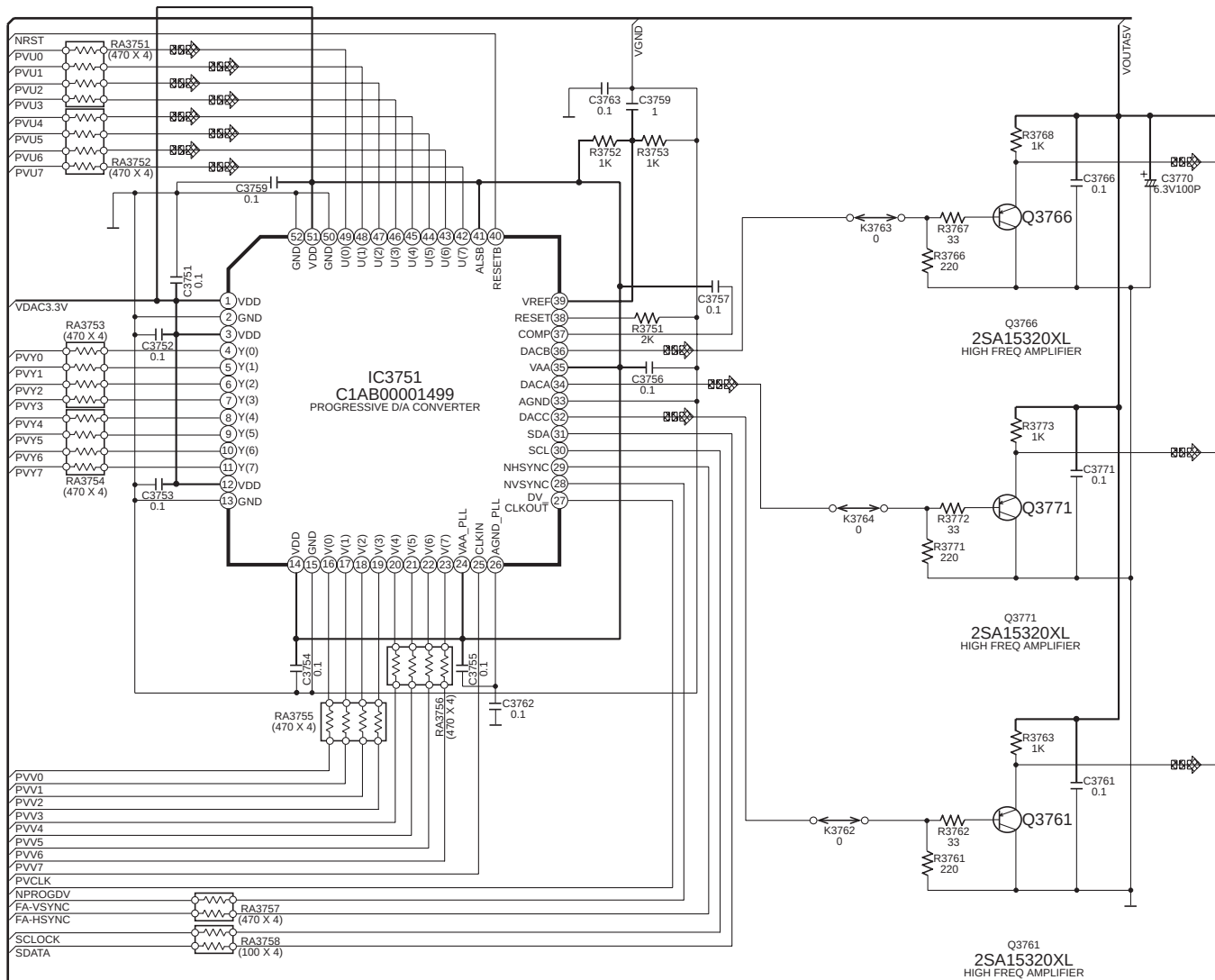
DVD MODULE(2) CIRCUIT (CPU)



SCHEMATIC DIAGRAM - 14

: +B SIGNAL LINE : DVD VIDEO SIGNAL LINE

B DVD MODULE(2) CIRCUIT (VIDEO DAC)



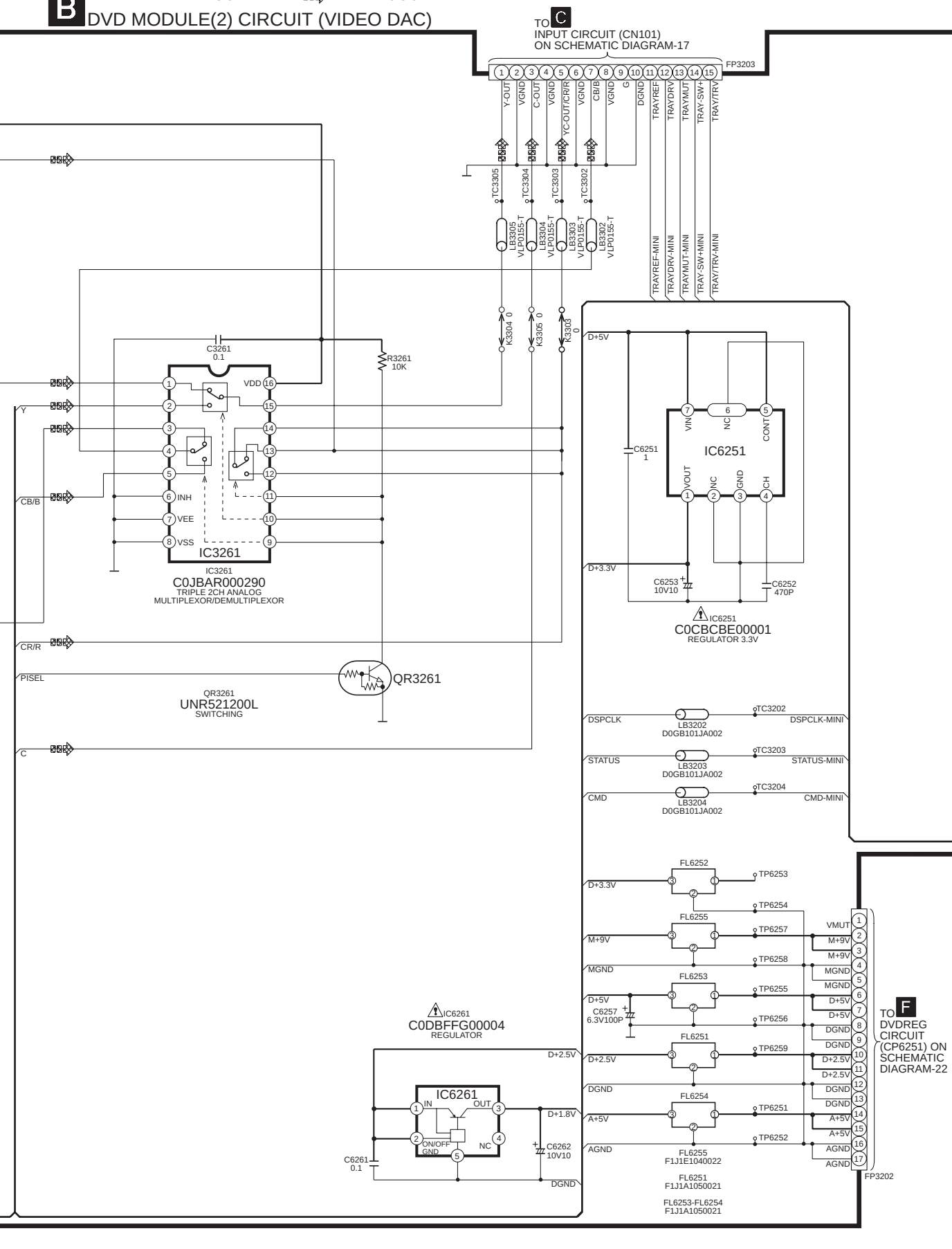
C3210 0.1 C3211 0.1 C3212 0.1

C3213 0.1 C3214 0.1

SCHEMATIC DIAGRAM - 15

: +B SIGNAL LINE : DVD VIDEO SIGNAL LINE

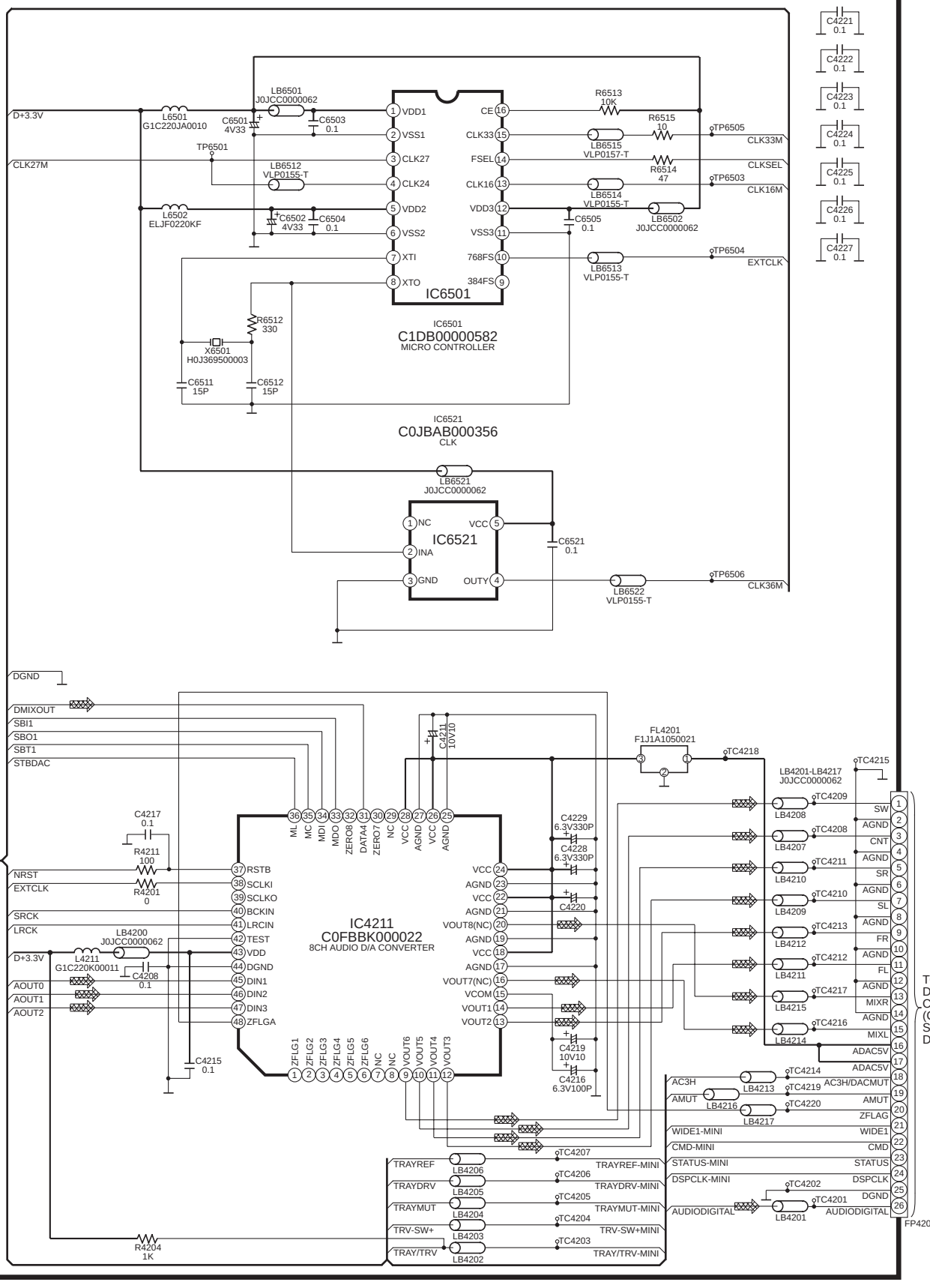
B DVD MODULE(2) CIRCUIT (VIDEO DAC)



SCHEMATIC DIAGRAM - 16

B DVD MODULE(2) CIRCUIT (AUDIO DAC)

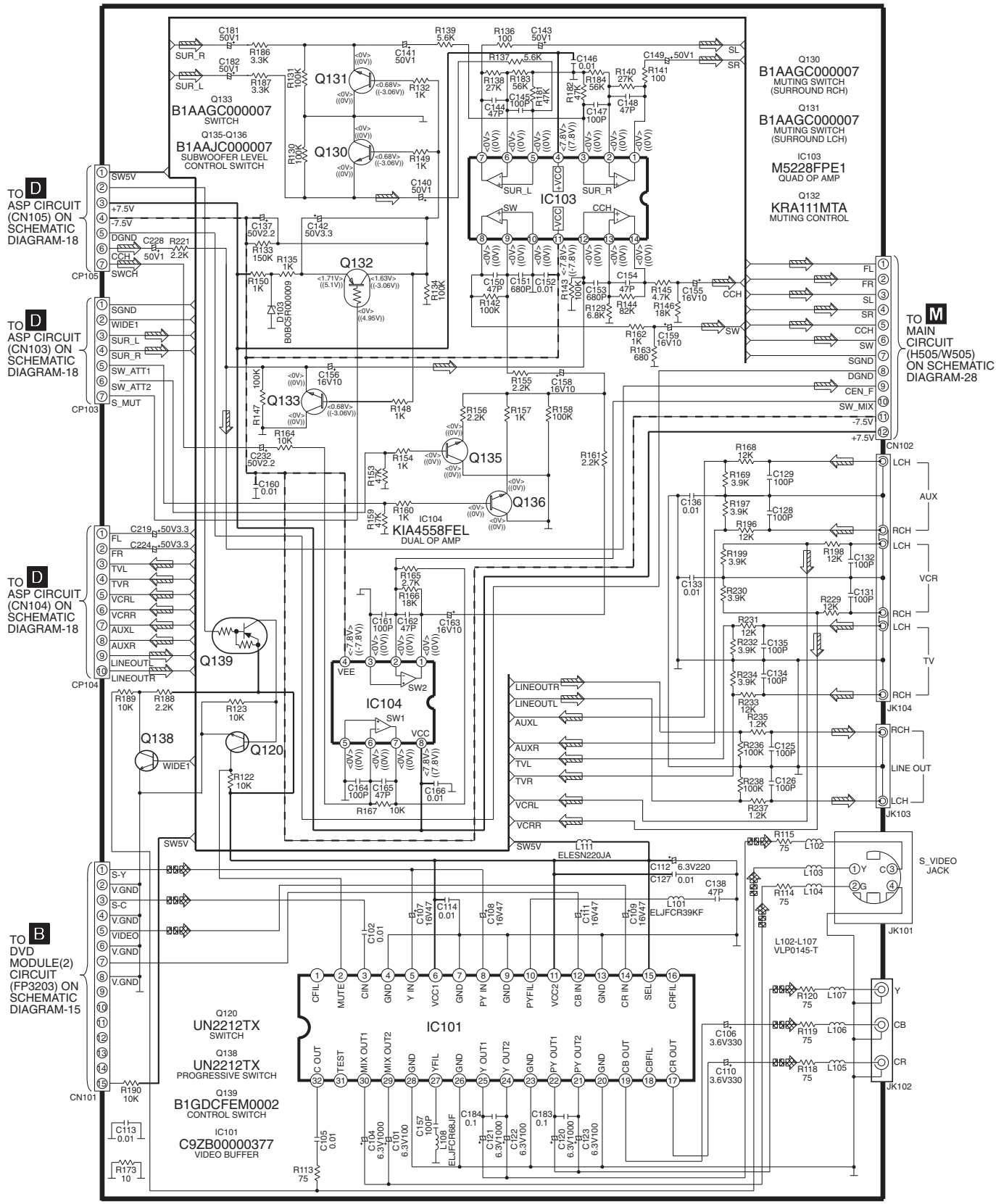
—— : +B SIGNAL LINE ▨ : DVD AUDIO SIGNAL LINE



SCHEMATIC DIAGRAM - 17

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE ⇨ : DVD(VIDEO) SIGNAL LINE

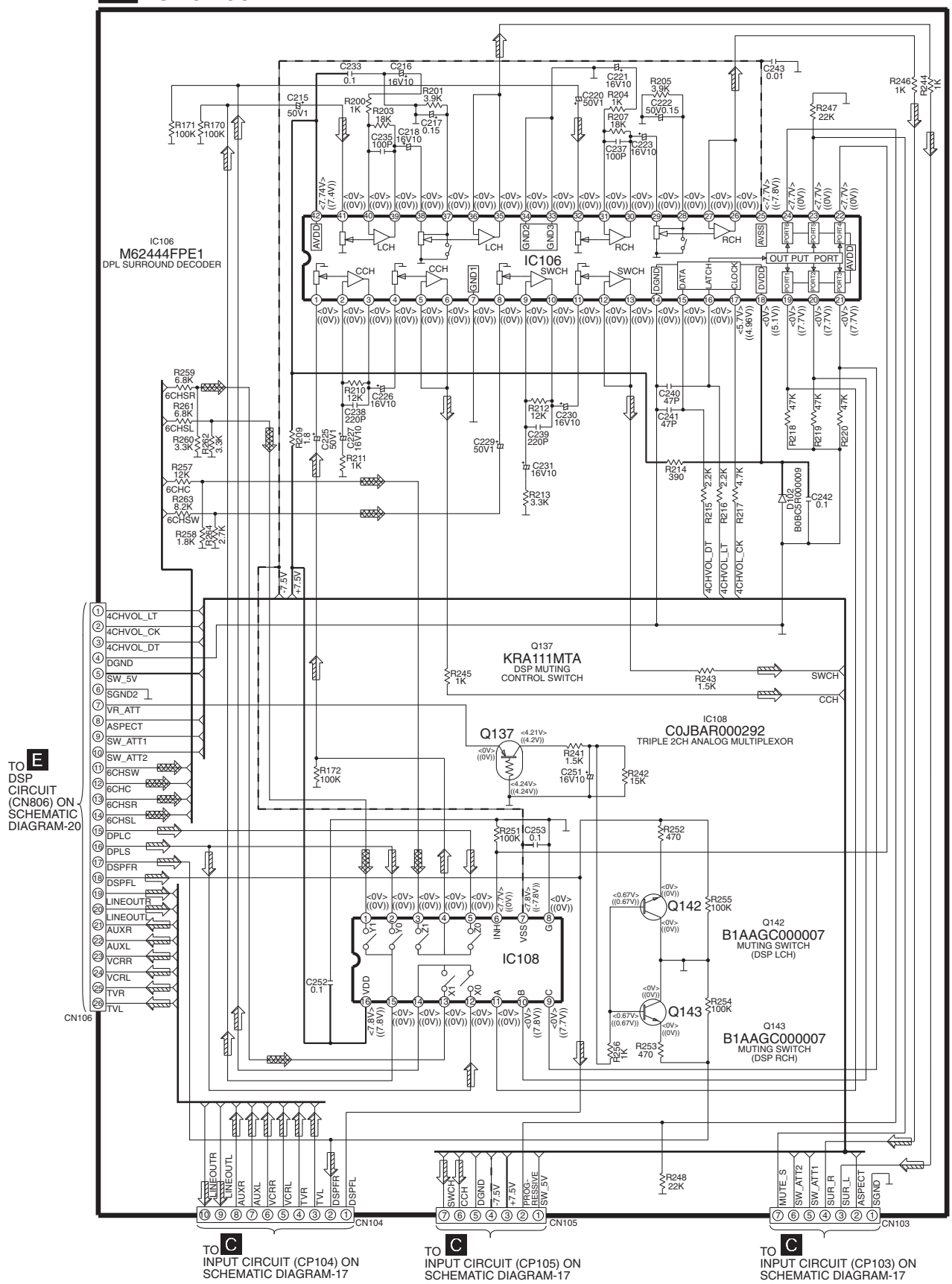
C INPUT CIRCUIT


TO D ASP CIRCUIT (CN105) ON SCHEMATIC DIAGRAM-18
TO D ASP CIRCUIT (CN103) ON SCHEMATIC DIAGRAM-18
TO D ASP CIRCUIT (CN104) ON SCHEMATIC DIAGRAM-18
TO B DVD MODULE(2) CIRCUIT (FP3203) ON SCHEMATIC DIAGRAM-15
TO M MAIN CIRCUIT (H505/W505) ON SCHEMATIC DIAGRAM-28
Q133 B1AAGC000007 SWITCH
Q135-Q136 B1AAJC000007 SUBWOOFER LEVEL CONTROL SWITCH
Q130 B1AAGC000007 MUTING SWITCH (SURROUND RCH)
Q131 B1AAGC000007 MUTING SWITCH (SURROUND LCH)
IC103 M5228FPE1 QUAD OP AMP
Q132 KRA111MTA MUTING CONTROL
IC104 KIA4558FEL DUAL OP AMP
IC101 C9ZB00000377 VIDEO BUFFER
Q120 UN2212TX SWITCH
Q138 UN2212TX PROGRESSIVE SWITCH
Q139 B1GDCFEM0002 CONTROL SWITCH
L102-L107 VLP0145-T
L111 ELESN220JA
L101 ELJFCR39KF
S_VIDEO JACK
AUX
VCR
TV
LINE OUT

SCHEMATIC DIAGRAM - 18

D ASP CIRCUIT

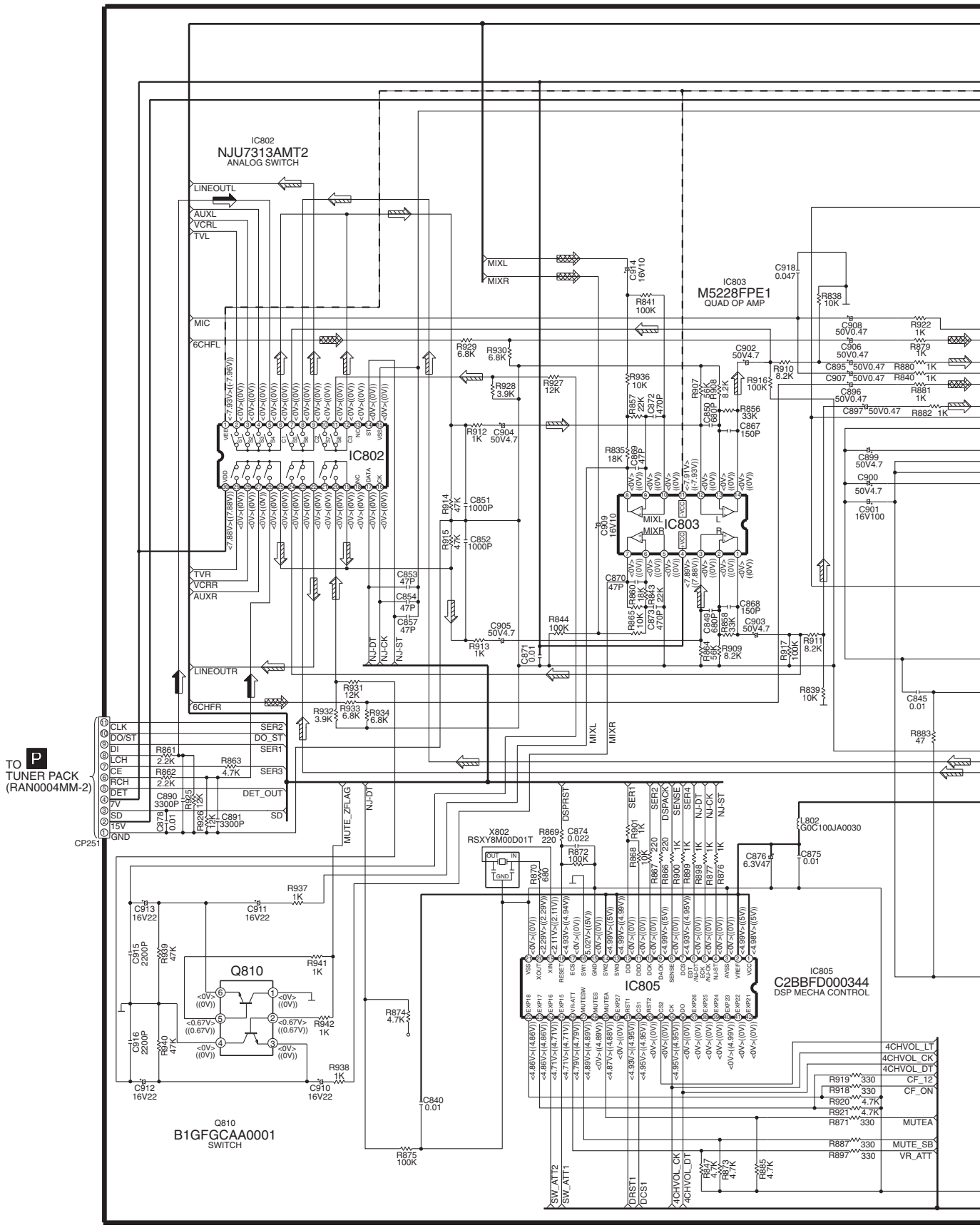
—— : +B SIGNAL LINE – – : -B SIGNAL LINE : DVD AUDIO SIGNAL LINE : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM - 19

: +B SIGNAL LINE : -B SIGNAL LINE : FM/AM SIGNAL LINE : MAIN SIGNAL LINE

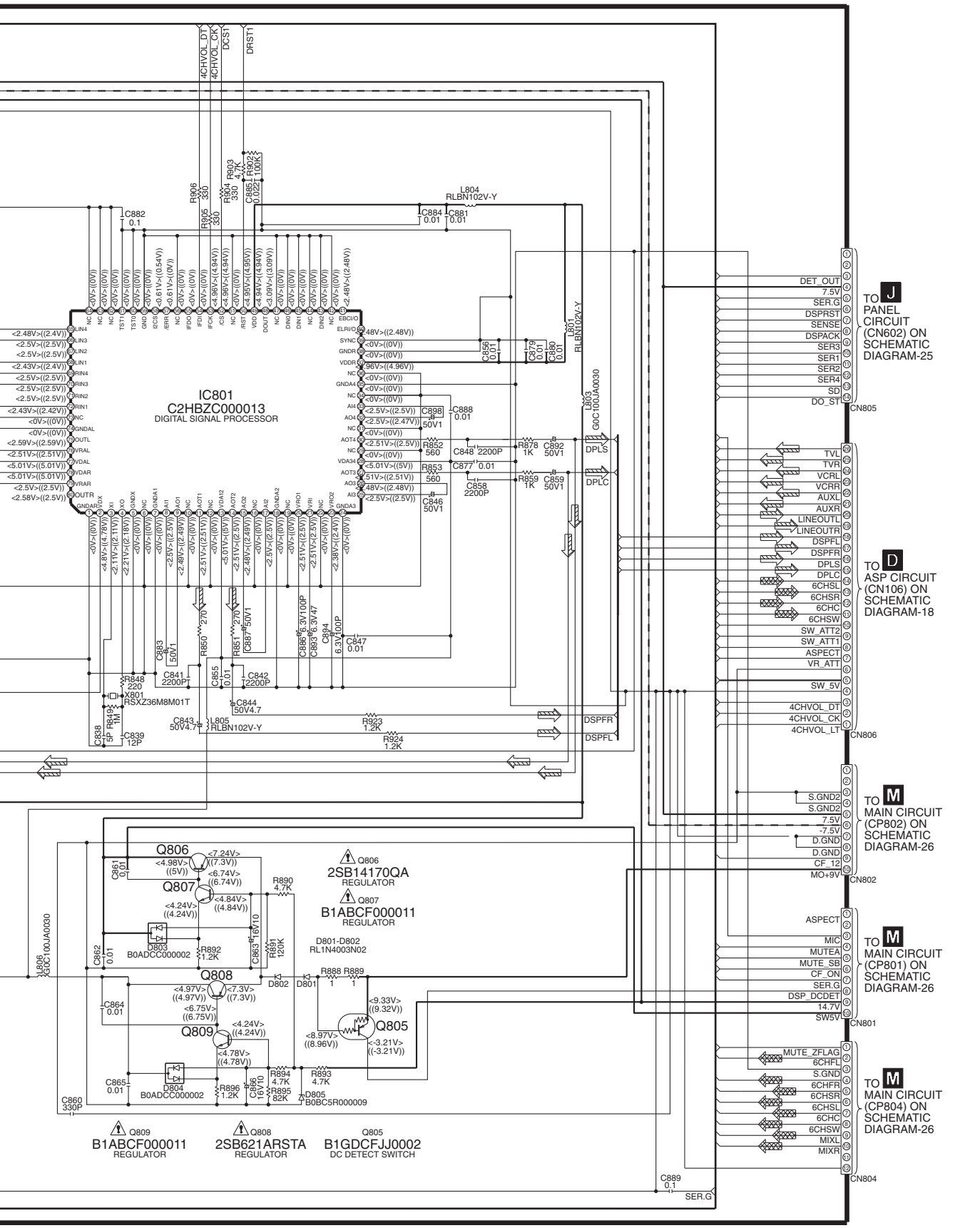
E DSP CIRCUIT



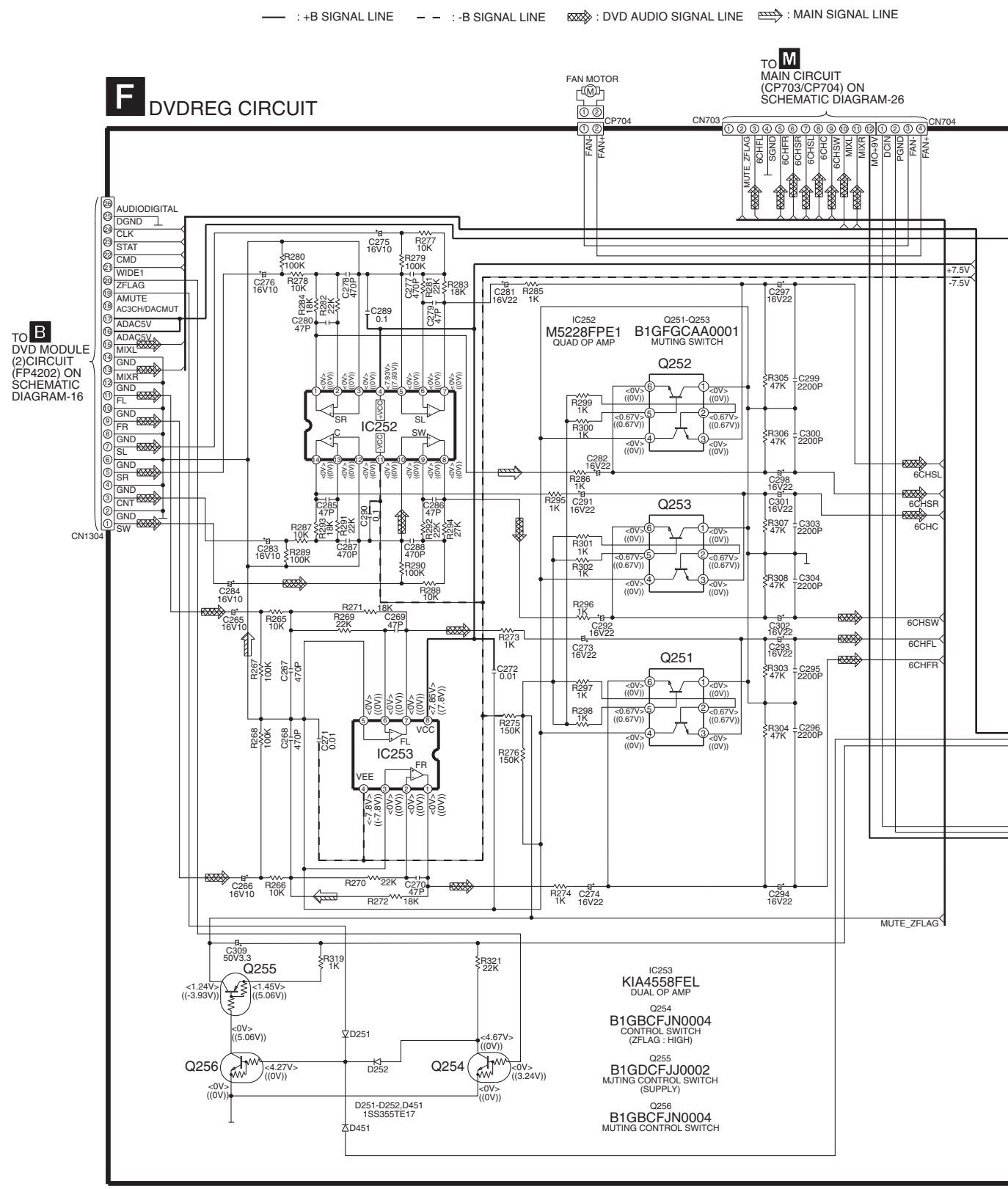
SCHEMATIC DIAGRAM - 20

E DSP CIRCUIT

—— : +B SIGNAL LINE – – : -B SIGNAL LINE : DVD AUDIO SIGNAL LINE : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM - 21



SCHEMATIC DIAGRAM - 22

—— : +B SIGNAL LINE

F DVDREG CIRCUIT

TO B
DVD MODULE(2) CIRCUIT (FP3202)
ON SCHEMATIC DIAGRAM-15

CP6251
M+9V-CTL
M+9V
M+9V
M_GND
M_GND
D+5V
D+5V
DGND
DGND
D+2.5V
D+2.5V
DGND
DGND
A+5V
A+5V
AGND
AGND

C716 25V2200P
C717 0.01
C742 16V10
L740 RLL50005OT-Y
C740 1
R741 2.2K
R740 2.2K
C741 6.3V820P
D741 B0BC7R500001
C743 25V100

I CD DETECT CIRCUIT

SW4
W2
D1 GP1S94
W1
SW5

G CD LOADING CIRCUIT

IC1
C0GAM0000005
MOTOR DRIVE
NC VS VCC VREF NC
10 9 8 7 6 5 4 3 2 1
C2 0.01
C1 16V100
M
RM1
R1 1K
D2
B0BA4R600003
Q1
B1GACFGG0004
POWER SUPPLY CONTROL
Q1
L
PLUNGER
BOTTOMSW
POSITION
PSLED
D_GND
SW2
P_GND
SW1
OPEN
CLAMP
CCW
DRIVEPOWER
HALF
CW
CN1
SW2
SW1
SW3
W2
W1
TO F
DVDREG CIRCUIT (CN1) ON SCHEMATIC DIAGRAM-23

H SPINDLE POSITION CIRCUIT

IC740
C0DBAJG00002
VOLTAGE REGULATOR
ON/OFF VIN VOUT OADJ COM
L741 G0ZZ00001930
D740 SFPB-72V

R710 560
R709 560
Q701
B1GDCFJJ0002
SWITCH (15V)
Q703
Q704
C704 0.01
D706 B0BC5R000009
D705 B0ADCC000002
R707 820
C705 0.01
C703 4700
R705 100K
R708 22K
R703 4.7K
R704 330
D707 B0BC9R000008
Q701 <14.93V> ((14.93V))
Q702 <14.92V> ((0V))
<0V>((4.73V))
D701-D704 RL1N4003N02
C702 25V4700
D702
D701
C701 0.1
D704
D703
FP702 4000
C719 0.1
L704 RLL50005OT-Y
L705 RLL50005OT-Y
Q702
B1GBCFJN0004
POWER SUPPLY CONTROL SWITCH (15V)
Q705 <-3.2V> ((-3.2V))
Q703
KTA1046
REGULATOR
R715 R716 R714 R713
R712 1
R711 1
R717 22K
R742 1K
R718 1K
D708 1SS355TE17

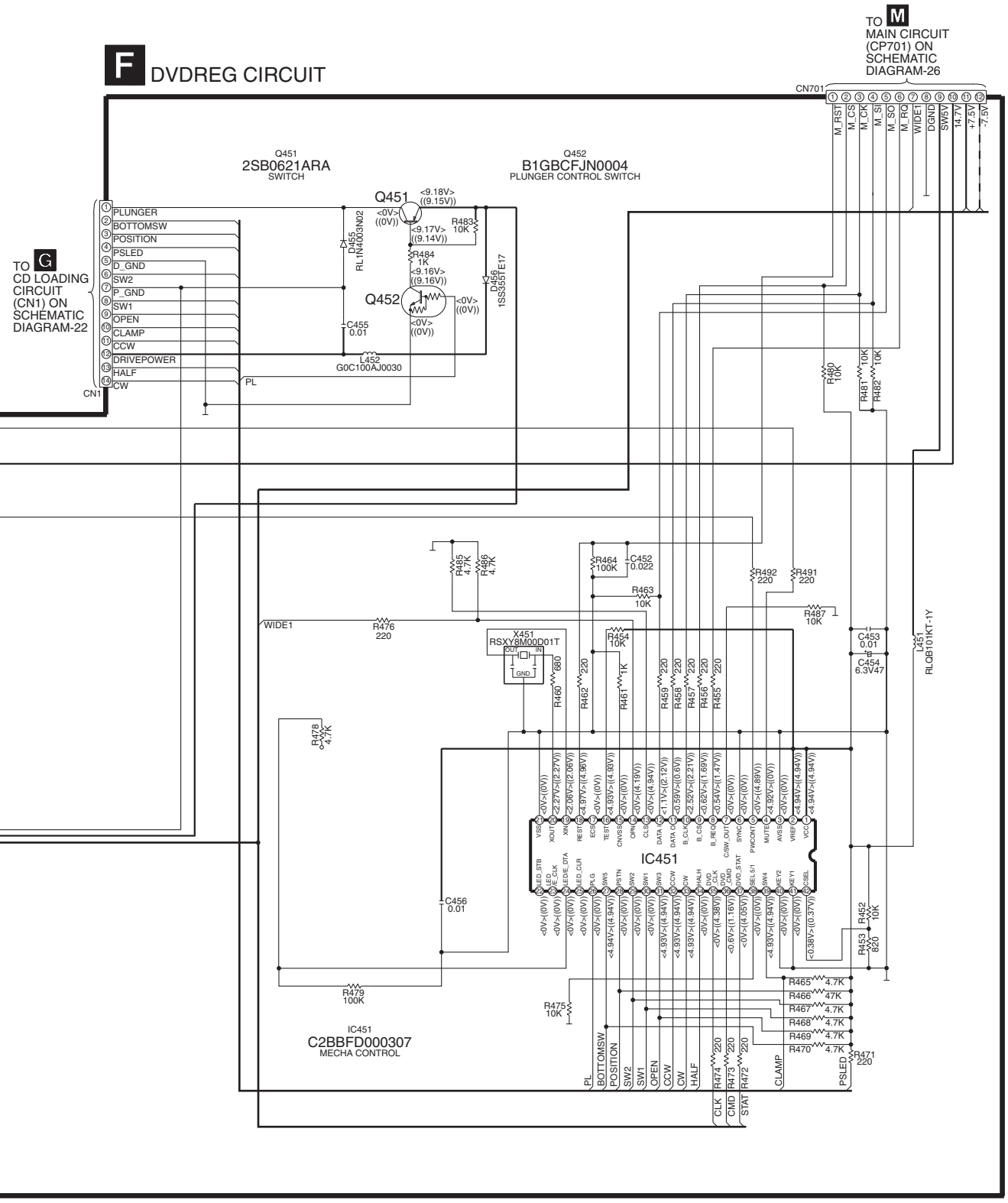
AU+5V
M+9V
D+5V
D+2.5V
A+5V
AU+5V
A+5V
M+9V
D+5V

Q710
2SB621ARSTA
REGULATOR
Q705
B1ADCF000001
CURRENT LIMITTING SWITCH (SHORT-CIRCUIT PROTECTION)
L702 G0ZZ00001930
C706 6.3V820
C739 1
R719 8.2K
D709 SFPB-72V
C703 RLL50005OT-Y
C709 25V100
L701 RLL50005OT-Y
D710 B0BC7R500001
R720 2.2K
IC702
C0DBAJG00002
VOLTAGE REGULATOR
ON/OFF VIN VOUT OADJ COM
<17.7V> ((15.6V))
<0V> ((5.96V))
<0V> ((1.21V))
<0V> ((0V))
<0V> ((4.12V))

Q712 <0.34V> ((5.83V)) <0.53V> ((5V)) <1.72V> ((5.17V))
R731 4.7K
D715 1SS355TE17
C715 1000P
Q713 <0.32V> ((5.15V)) <0.16V> ((4.75V)) <0V> ((4.16V))
D713
C712 16V10
R732 680
R730 150K
Q710 <0.4V> ((5.84V)) <0V> ((4.99V)) <2.2V> ((5.12V))
C714 1000P
R728 4.7K
D714 1SS355TE17
Q711 <0.16V> ((5.09V)) <0.14V> ((4.82V)) <0V> ((4.18V))
D712
C711 16V10
R729 680
R727 330K
D711-D713 B0ADCC000002
Q711
B1ABCF000011
REGULATOR
Q712
2SB621ARSTA
REGULATOR
Q713
B1ABCF000011
REGULATOR
Q704
B1ABCF000011
REGULATOR
C710 10V100
IC703
LM2940T5M
VOLTAGE REGULATOR
VCC GND I/O
<0V> ((4.92V)) <0V> ((0V)) <0V> ((6.85V))
C708 6.3V220
C707 10V100

CP705
TO N
SUB-TRANSFORMER CIRCUIT (W705) ON SCHEMATIC DIAGRAM-28

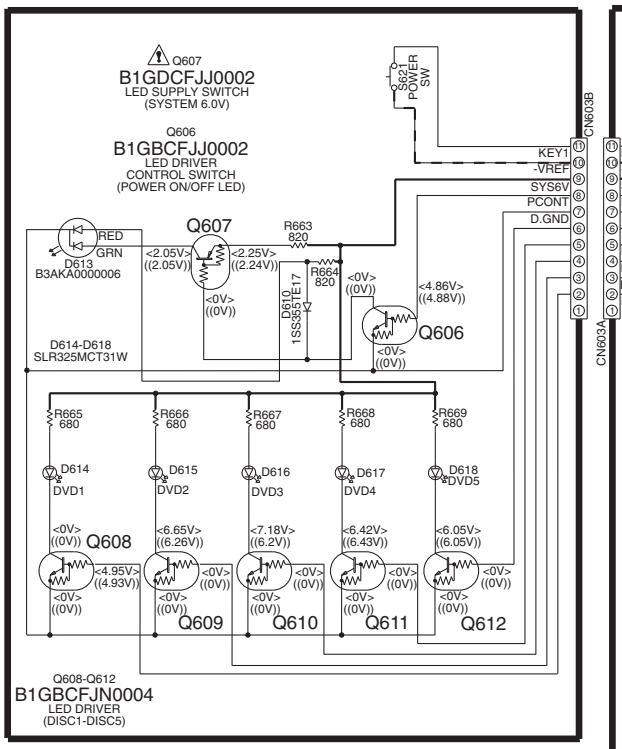
—— : +B SIGNAL LINE – – : -B SIGNAL LINE



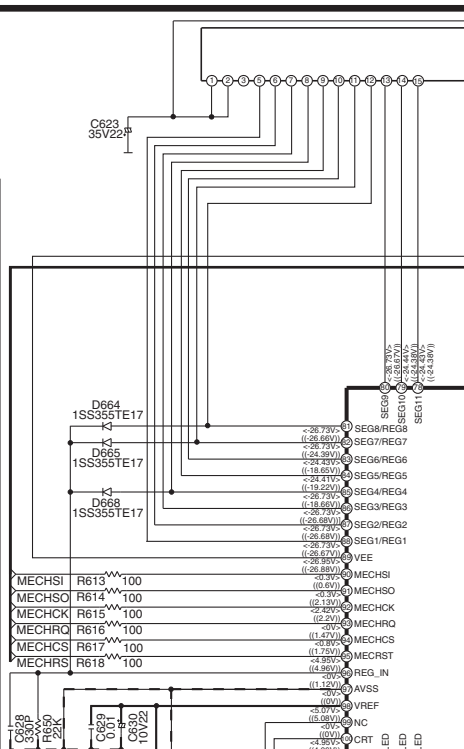
SCHEMATIC DIAGRAM - 24

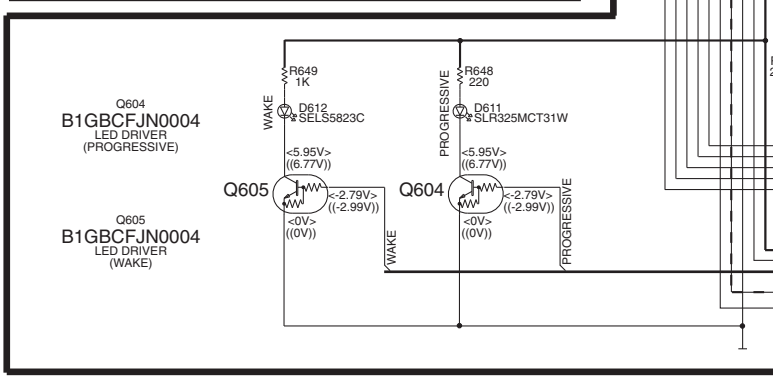
—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

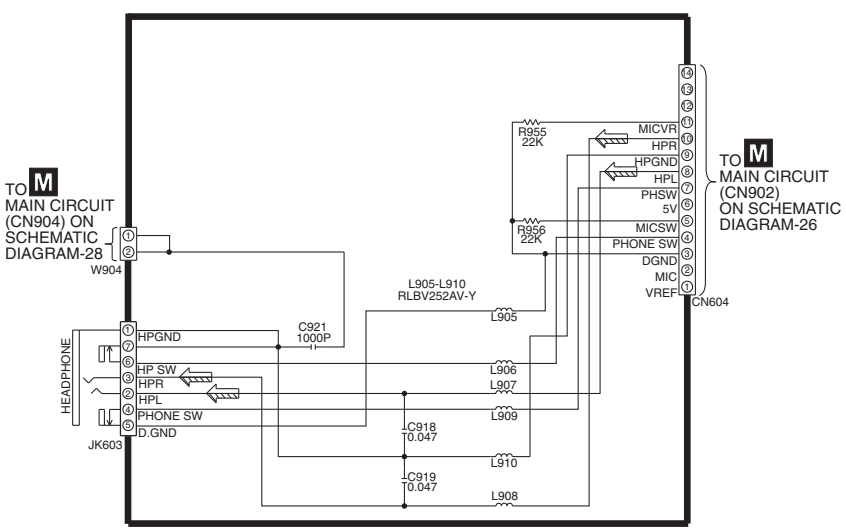
K POWER SWITCH CIRCUIT

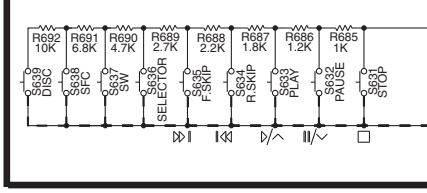


J PANEL CIRCUIT







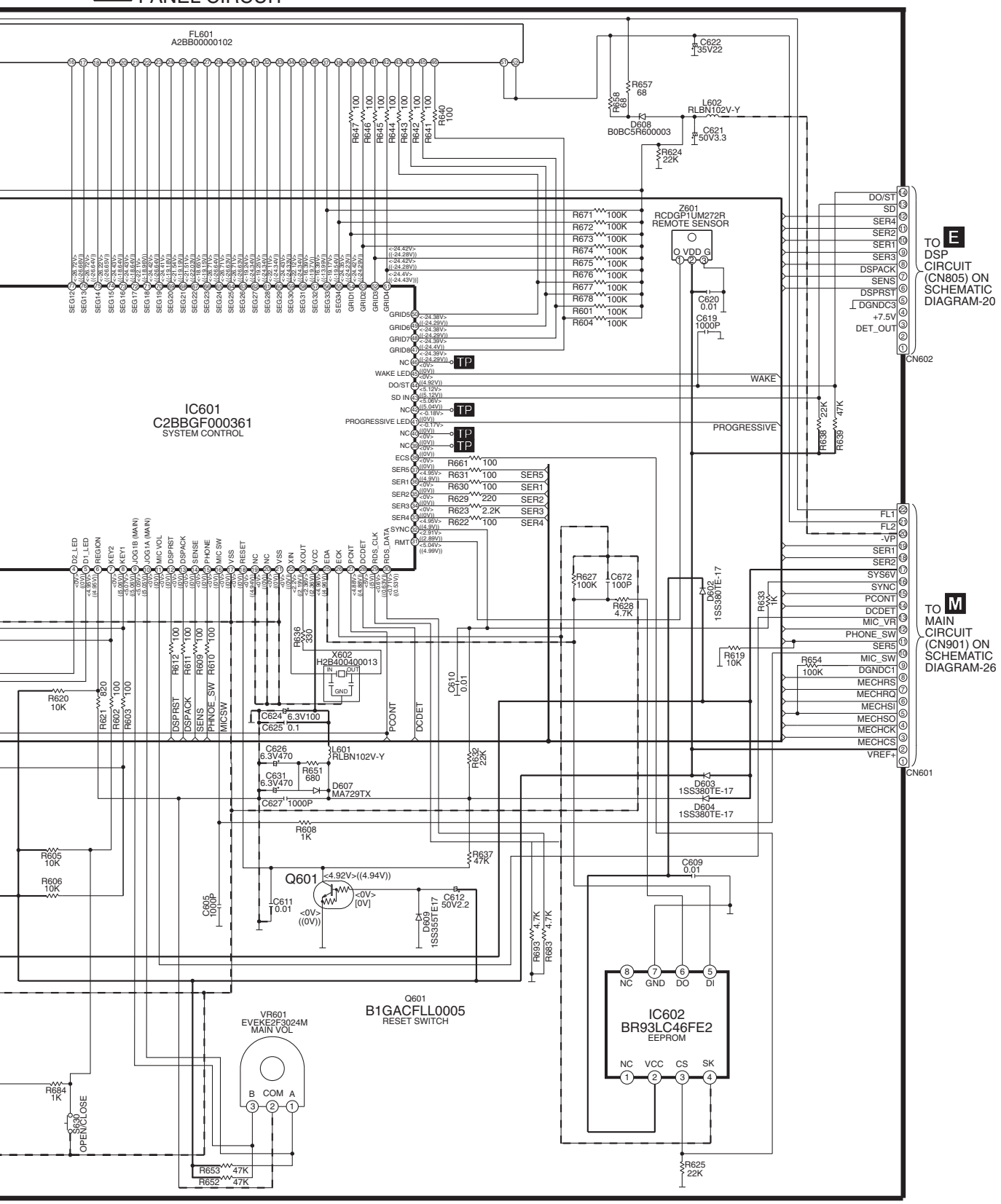


L HEADPHONE CIRCUIT

SCHEMATIC DIAGRAM - 25

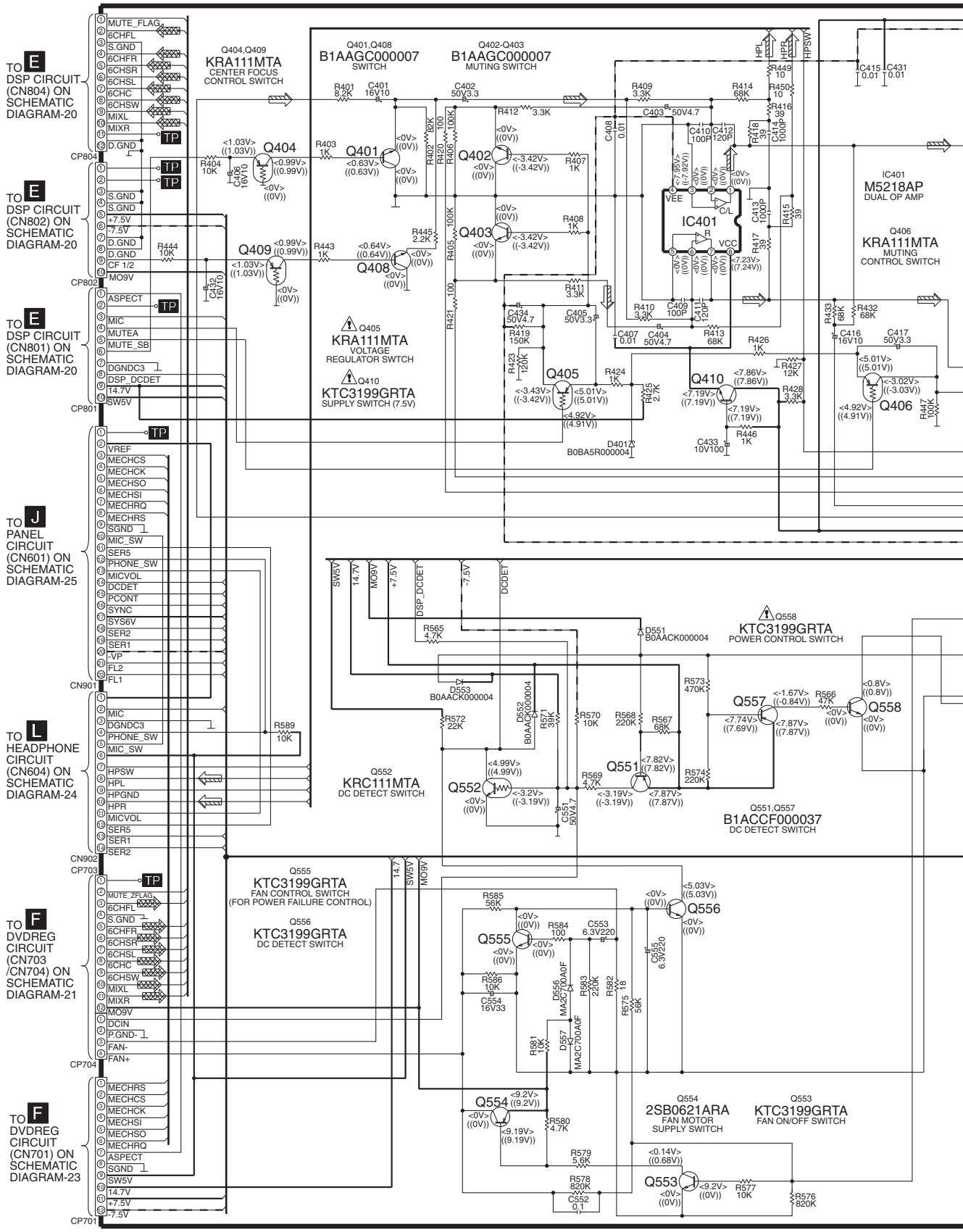
—— : +B SIGNAL LINE – – : -B SIGNAL LINE

J PANEL CIRCUIT



: +B SIGNAL LINE : -B SIGNAL LINE : DVD AUDIO SIGNAL LINE : MAIN SIGNAL LINE

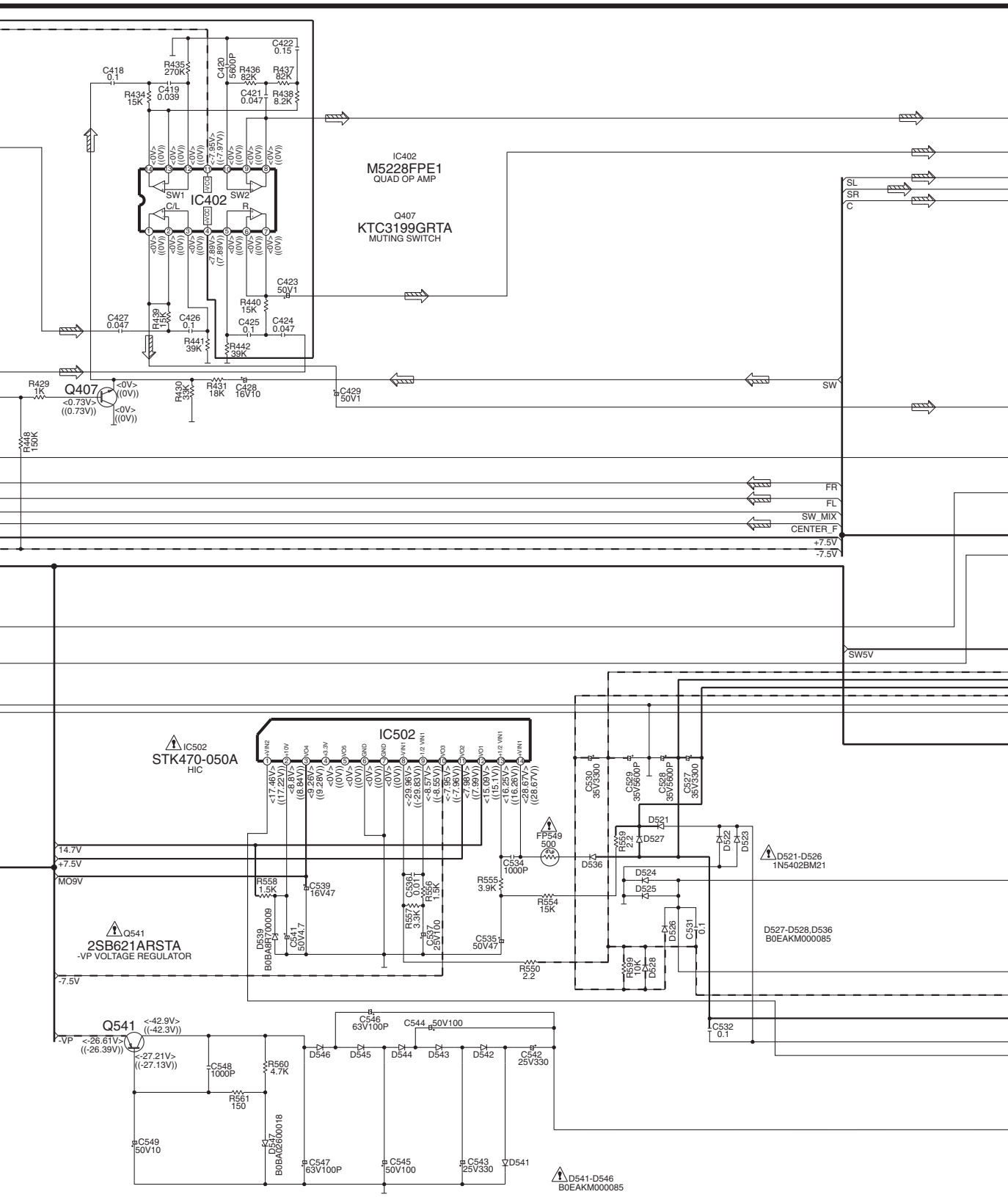
M MAIN CIRCUIT


TO E DSP CIRCUIT (CN804) ON SCHEMATIC DIAGRAM-20
TO E DSP CIRCUIT (CN802) ON SCHEMATIC DIAGRAM-20
TO E DSP CIRCUIT (CN801) ON SCHEMATIC DIAGRAM-20
TO J PANEL CIRCUIT (CN601) ON SCHEMATIC DIAGRAM-25
TO L HEADPHONE CIRCUIT (CN604) ON SCHEMATIC DIAGRAM-24
TO F DVDREG CIRCUIT (CN703 /CN704) ON SCHEMATIC DIAGRAM-21
TO F DVDREG CIRCUIT (CN701) ON SCHEMATIC DIAGRAM-23
CP804
CP802
CP801
CN901
CN902
CP703
CP704
CP701
Q404,Q409 KRA111MTA CENTER FOCUS CONTROL SWITCH
Q401,Q408 B1AAGC000007 SWITCH
Q402-Q403 B1AAGC000007 MUTING SWITCH
IC401 M5218AP DUAL OP AMP
Q406 KRA111MTA MUTING CONTROL SWITCH
Q405 KRA111MTA VOLTAGE REGULATOR SWTCH
Q410 KTC3199GRTA SUPPLY SWITCH (7.5V)
D401 B0BA5R000004
Q552 KRC111MTA DC DETECT SWITCH
Q558 KTC3199GRTA POWER CONTROL SWITCH
D551 B0AACK000004
D553 B0AACK000004
Q551,Q557 B1ACCF000037 DC DETECT SWITCH
Q555 KTC3199GRTA FAN CONTROL SWITCH (FOR POWER FAILURE CONTROL)
Q556 KTC3199GRTA DC DETECT SWITCH
Q554 2SB0621ARA FAN MOTOR SUPPLY SWITCH
Q553 KTC3199GRTA FAN ON/OFF SWITCH

SCHEMATIC DIAGRAM - 27

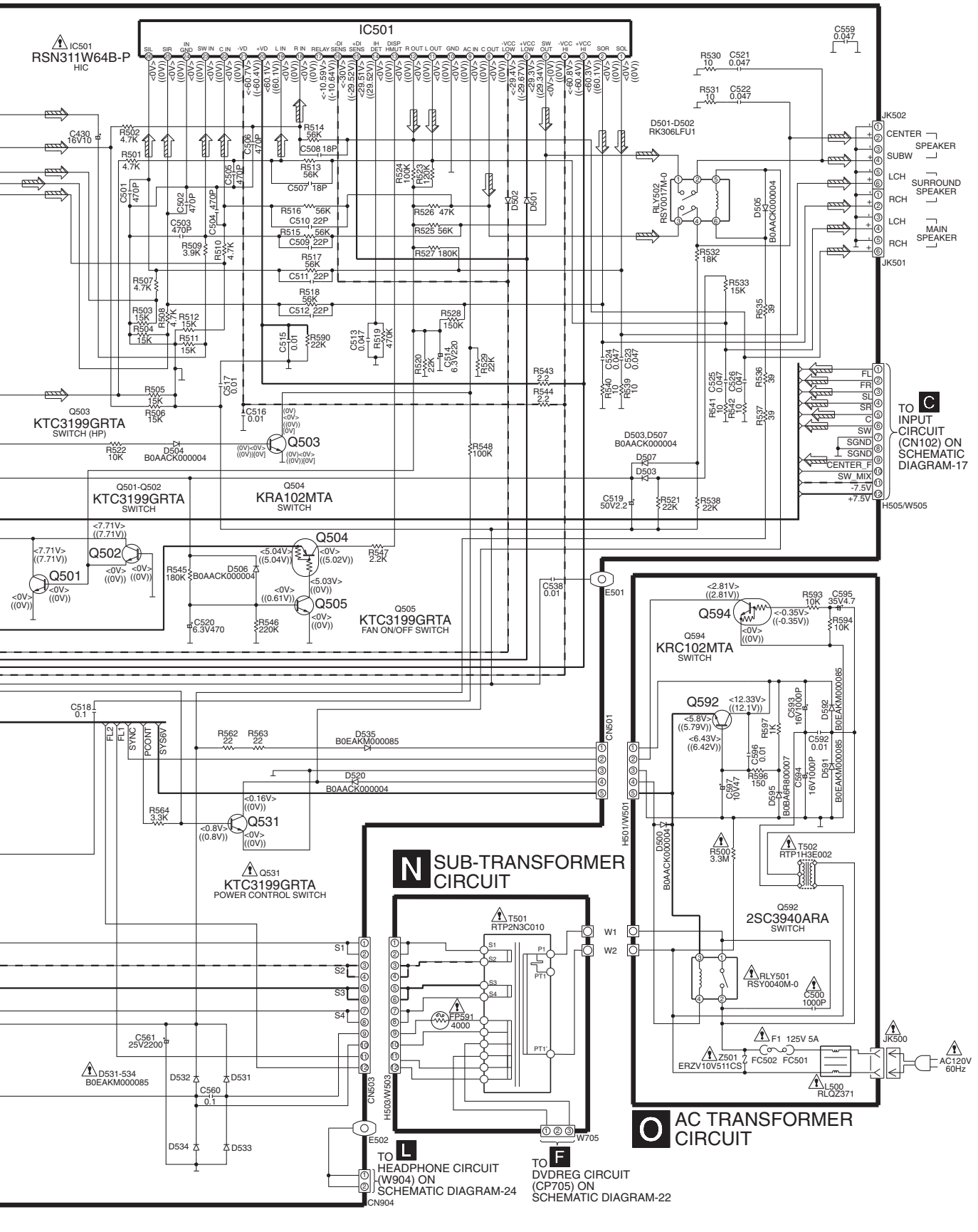
—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

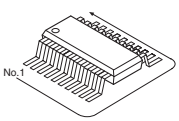
M MAIN CIRCUIT



—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

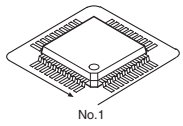
M MAIN CIRCUIT





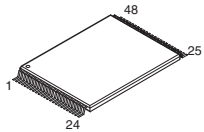
C0JBAR000155 (16P)
C0JBAR000292 (?P)
C0JBAR000290 (?P)
C1AB00001499 (16P)
C1AB00001554 (?P)
C1DB00000582 (16P)
KIA4558FEL (8P)

C2BBGF000311 (100P)
C2BBFD000307 (42P)
C2BBFD000344 (42P)
C3ABPG000068 (54P)
M5228FPE1 (14P)
M62444FPE1 (42P)
NJU7313AMT2 (30P)

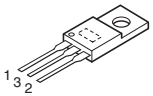


AN8703FH-V (64P)
C0FBBK000022 (48P)
C2HBZC000013 (80P)
MN5B00 (100P)
MN677531KA (208P)
MN103S26EGA (176P)
MN102H60GFB (100P)

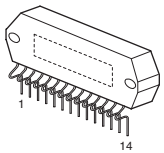
RFKFMA502160



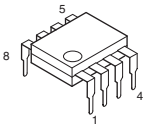
LM2940T5M



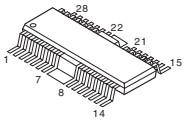
STK470-050A



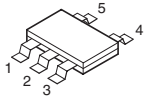
M5218AP
BR93LC46FE2



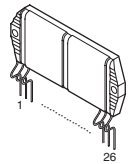
C0GBG0000033



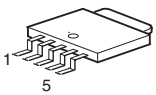
C0JBAA000001
C0EBE0000070
C0JBAB000356



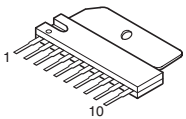
RSN311W64B-P



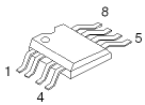
C0DBAJG00002



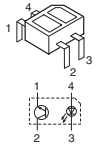
C0GAM0000005



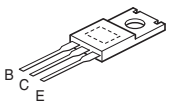
C0CBCBD00002
C0ABHB000004
C0ABBA000121



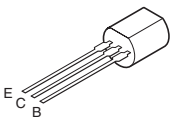
CNB13030R2AU

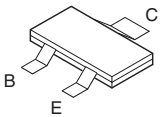


KTA1046



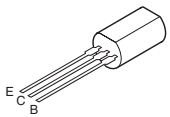
2SB0621ARA
2SB621ARSTA



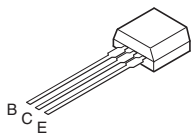


B1GDCFJJ0002
B1GBCFJN0004
B1GBCFJJ0002
B1ADCF000001
B1ABCF000011
UN2212TX

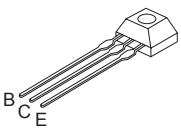
2SC3940ARA



B1ACCF000037
B1GACFLL0005



KRA102MTA
KRA111MTA
KRC102MTA
KRC111MTA
KTC3199GRTA
B1GACFGG0004
B1AAGC000007



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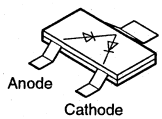
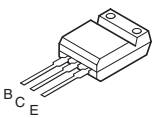
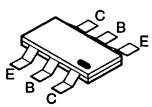


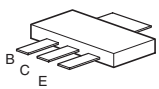
2SB14170QA



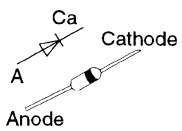
B1GFGCAA0001



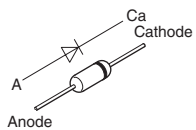
B1BDBF000004



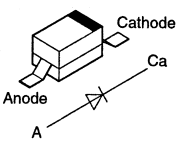
MA2J72800L



B0AACK000004



SFPB-72V



MA2J11100L
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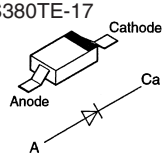
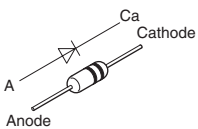
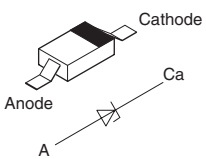
1SS380TE-17



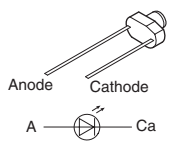
MA2C700A0F
MA729TX



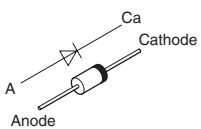
B0BC9R000008
B0BC7R500001
B0BC5R000009

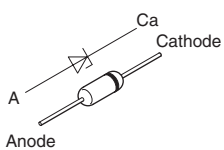


SLR325MCT31W
SELS5823C



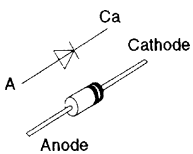
RL1N4003N02
1N5402BM21
B0EAKM000085

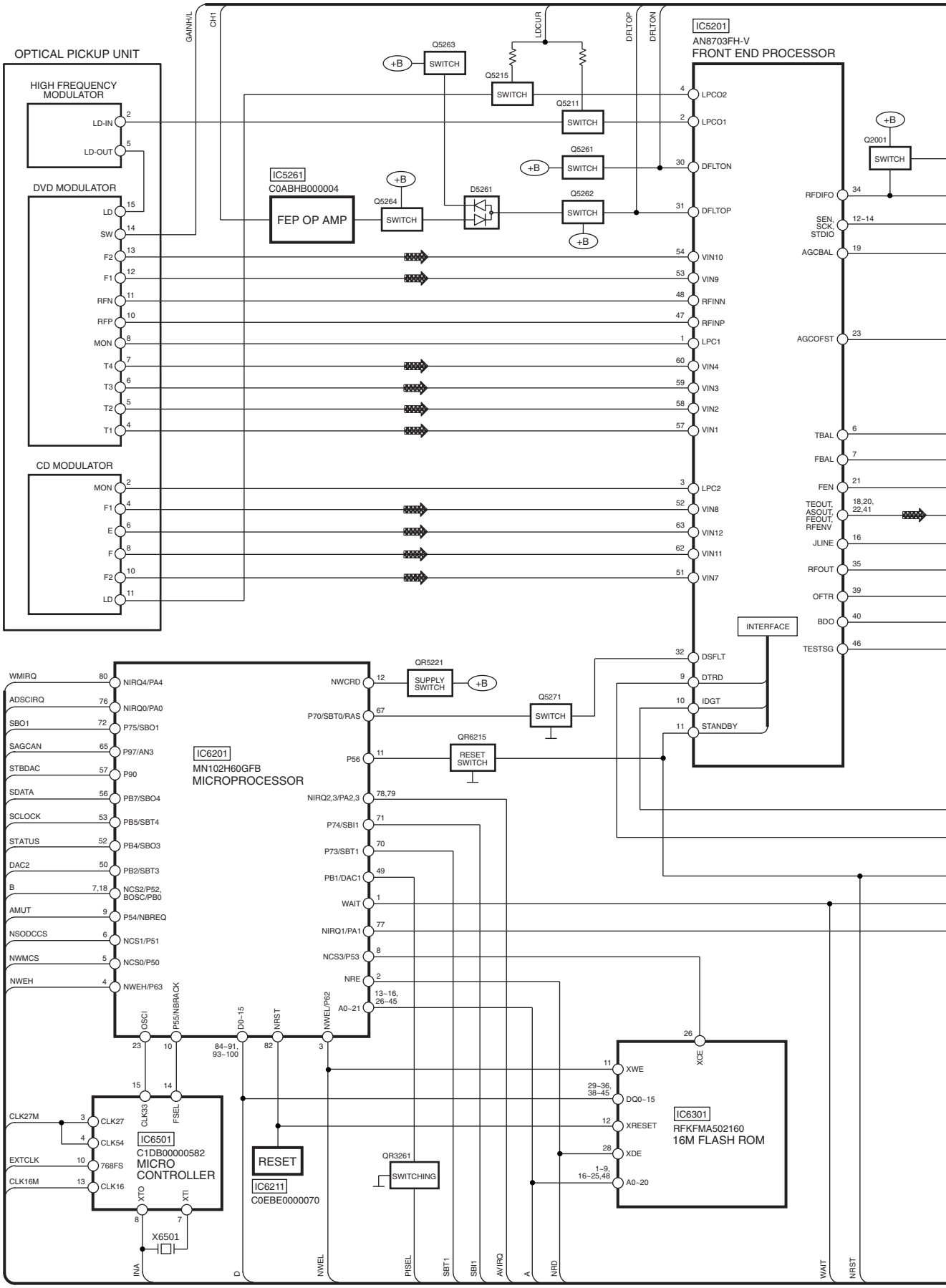


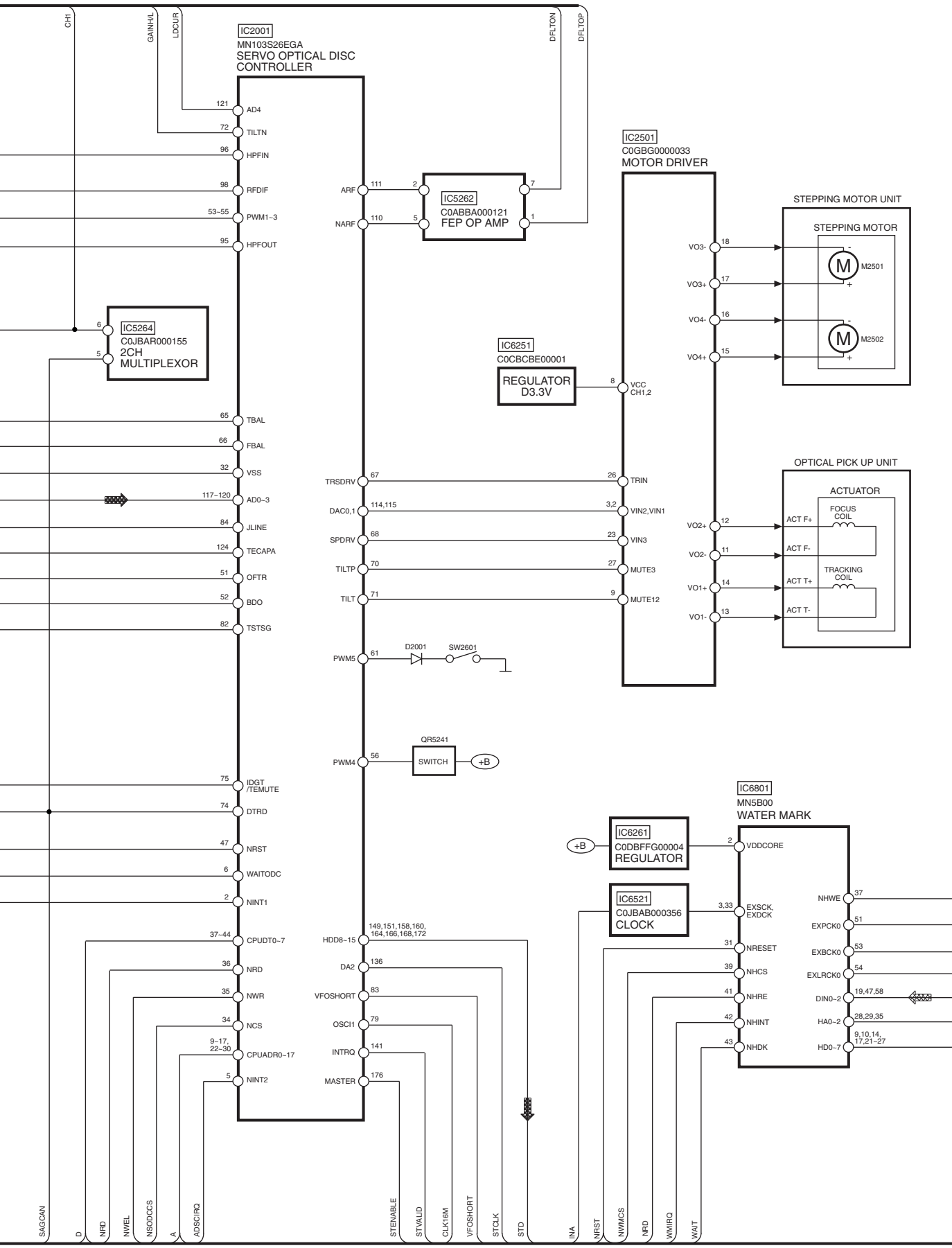


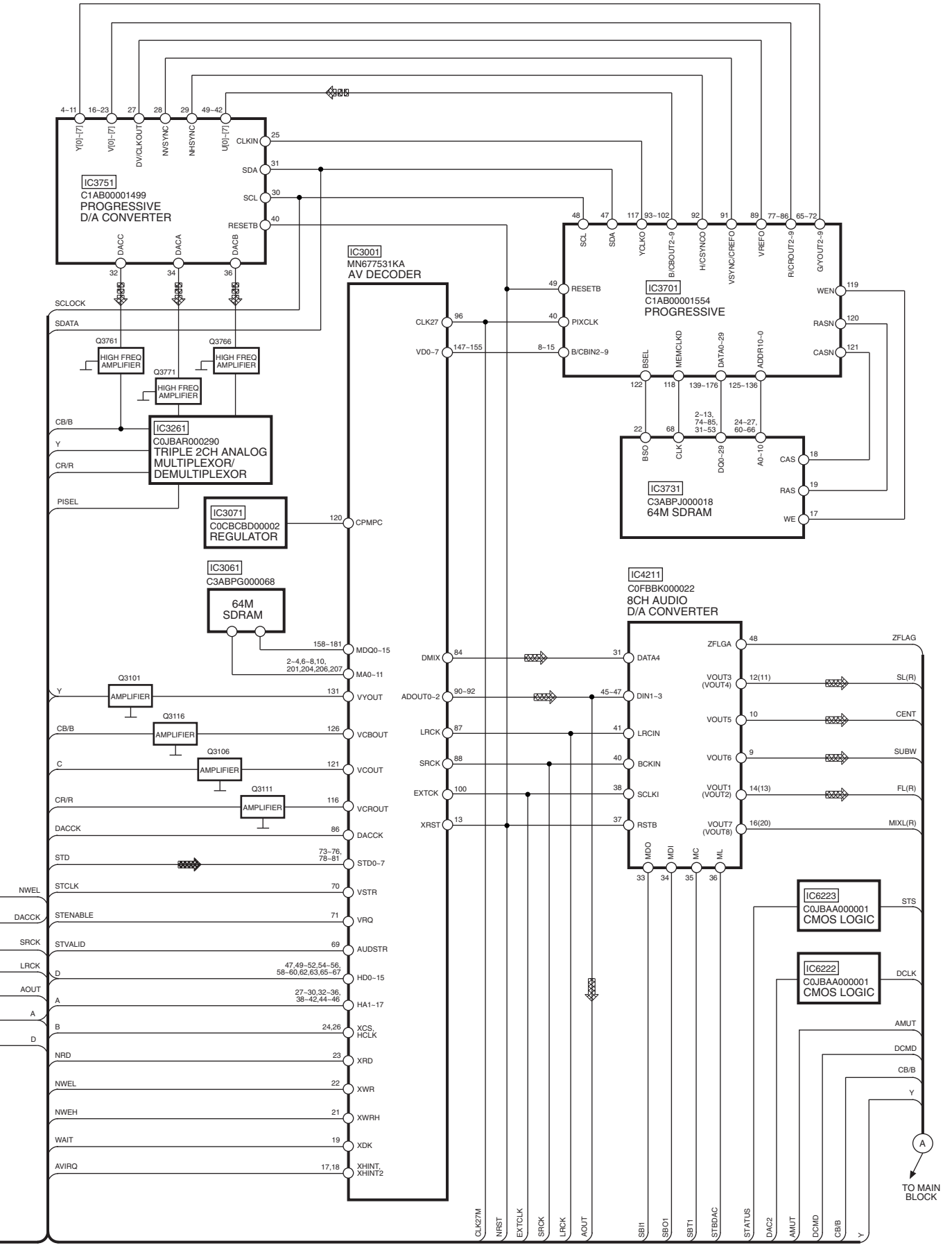
B0BA4R600003
B0BC5R600003
B0BA5R000004
B0BA8R700009
B0BA6R800007

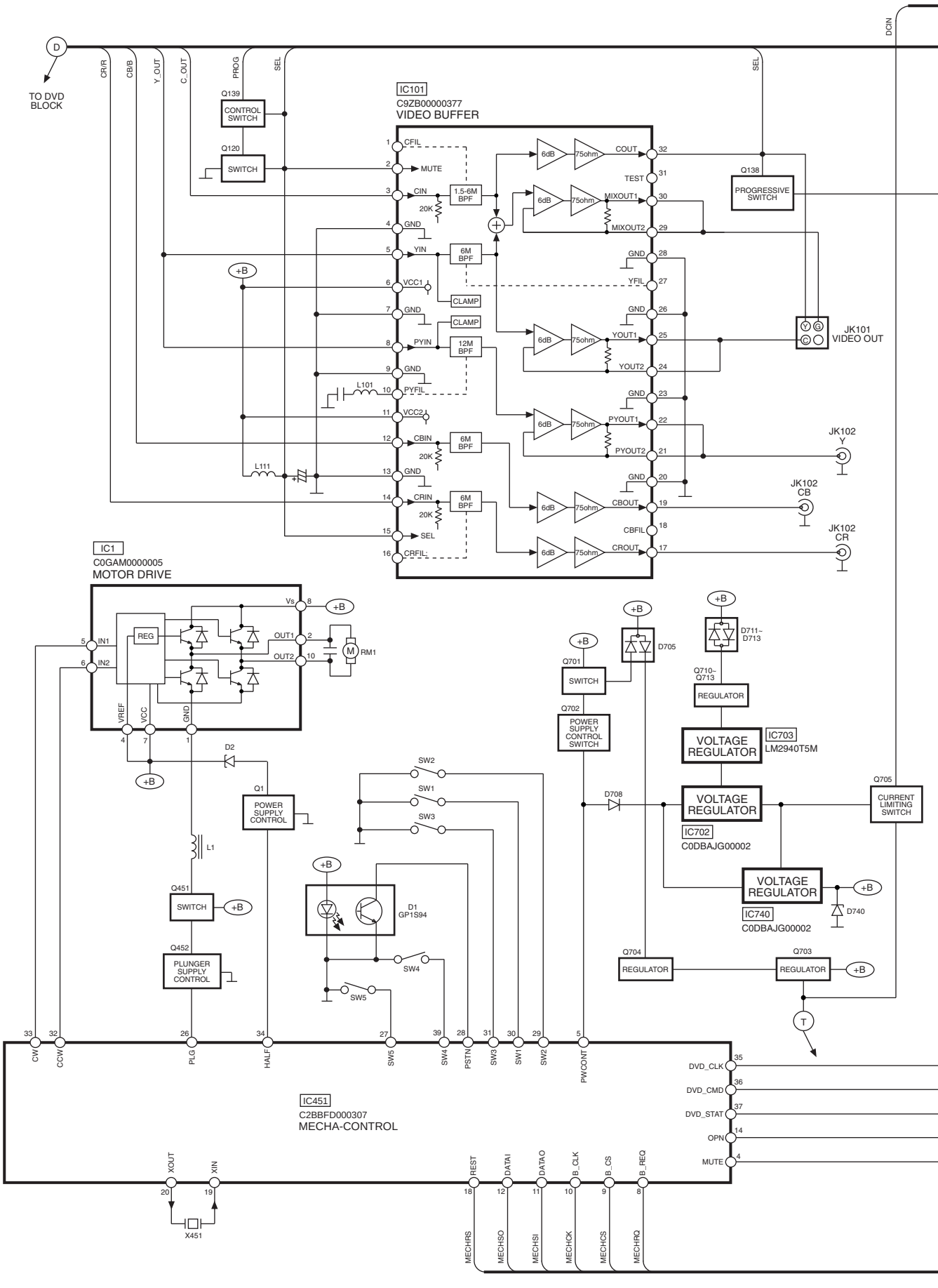
RK306LFU1

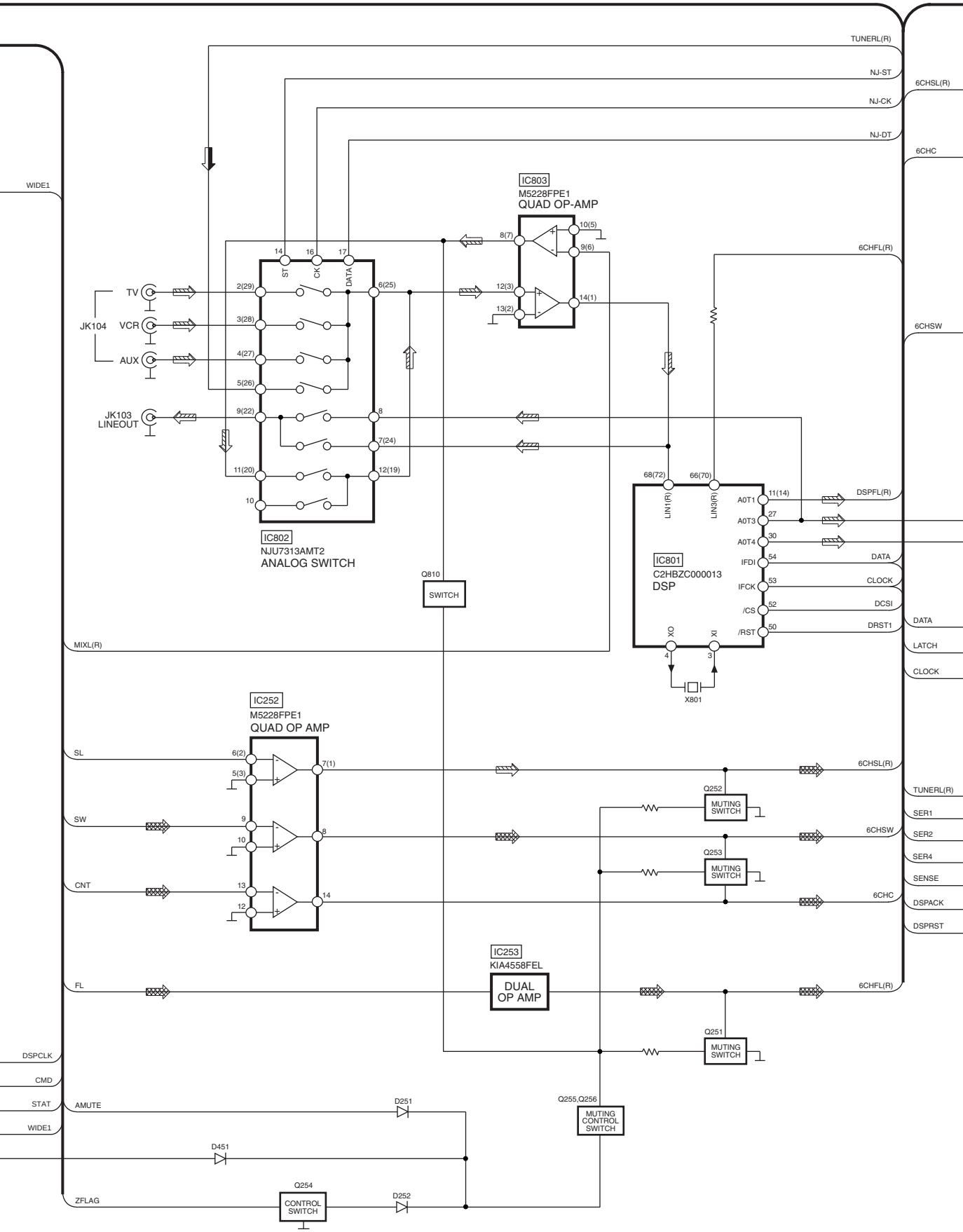


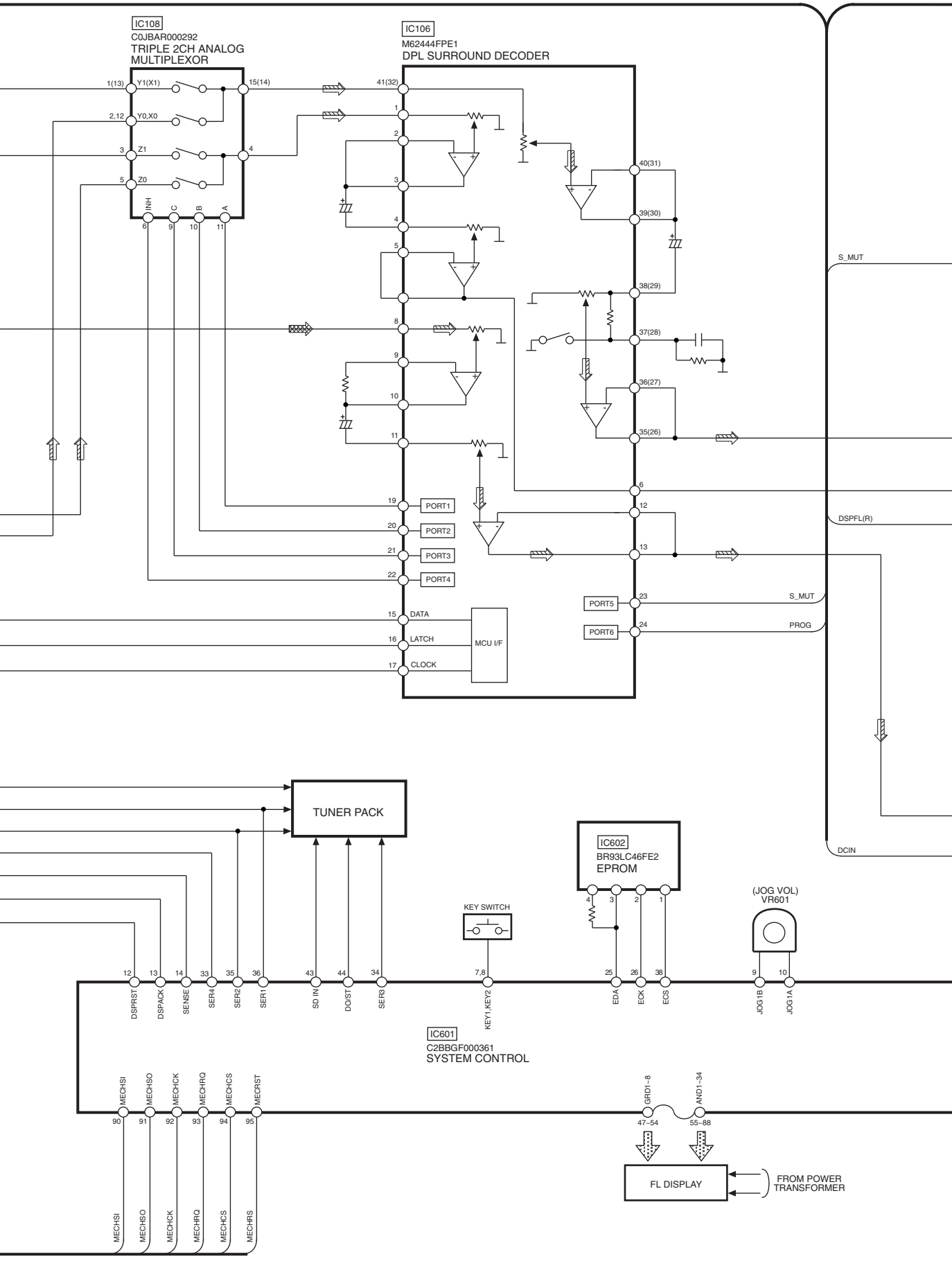

OPTICAL PICKUP UNIT
HIGH FREQUENCY MODULATOR
LD-IN
LD-OUT
DVD MODULATOR
LD
SW
F2
F1
RFN
RFP
MON
T4
T3
T2
T1
CD MODULATOR
MON
F1
E
F
F2
LD
GAINH/L
CH1
IC5261
C0ABHB000004
FEP OP AMP
Q5263
SWITCH
Q5215
SWITCH
Q5211
SWITCH
Q5261
SWITCH
Q5264
SWITCH
D5261
Q5262
SWITCH
+B
LDCUR
DFLTOP
DFLTON
IC5201
AN8703FH-V
FRONT END PROCESSOR
LPCO2
LPCO1
DFLTON
DFLTOP
VIN10
VIN9
RFINN
RFINP
LPC1
VIN4
VIN3
VIN2
VIN1
LPC2
VIN8
VIN12
VIN11
VIN7
Q2001
SWITCH
RFDIFO
SEN, SCK, STDIO
AGCBAL
AGCOFST
TBAL
FBAL
FEN
TEOUT, ASOUT, FEOUT, RFENV
JLINE
RFOUT
OFTR
BDO
TESTSG
INTERFACE
DSFLT
DTRD
IDGT
STANDBY
IC6201
MN102H60GFB
MICROPROCESSOR
WMIRQ
ADSCIRQ
SBO1
SAGCAN
STBDAC
SDATA
SCLOCK
STATUS
DAC2
B
AMUT
NSODCCS
NWMCS
NWEH
NIRQ4/PA4
NIRQ0/PA0
P75/SBO1
P97/AN3
P90
PB7/SBO4
PB5/SBT4
PB4/SBO3
PB2/SBT3
NCS2/P52, BOSC/PB0
P54/NBREQ
NCS1/P51
NCS0/P50
NWEH/P63
QR5221
SUPPLY SWITCH
NWCRD
P70/SBT0/RAS
Q5271
SWITCH
P56
QR6215
RESET SWITCH
NIRQ2,3/PA2,3
P74/SBI1
P73/SBT1
PB1/DAC1
WAIT
NIRQ1/PA1
NCS3/P53
NRE
A0~21
OSCI
P55/NBRACK
D0~15
NRST
NWEL/P62
IC6501
C1DB00000582
MICRO CONTROLLER
CLK27M
EXTCLK
CLK16M
CLK27
CLK54
768FS
CLK16
CLK33
FSEL
XTO
XTI
X6501
RESET
IC6211
C0EBE0000070
QR3261
SWITCHING
IC6301
RFKFMA502160
16M FLASH ROM
XCE
XWE
DQ0~15
XRESET
XDE
A0~20
INA
D
NWEL
PISEL
SBT1
SBI1
AVIRQ
A
NRD
WAIT
NRST

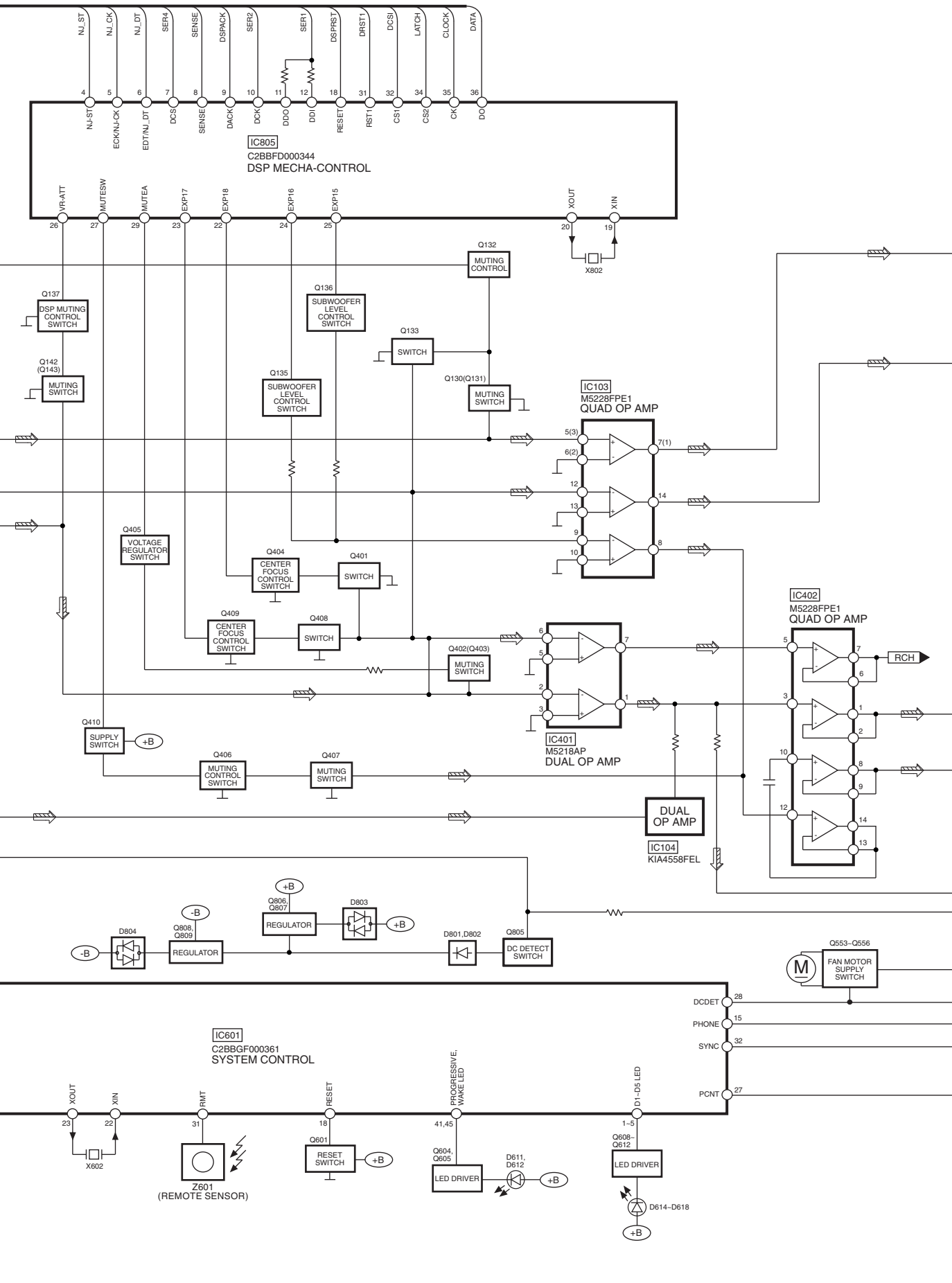

IC2001
MN103S26EGA
SERVO OPTICAL DISC CONTROLLER
CH1
GAINH/L
LDCUR
DRLTON
DRLTOP
121 AD4
72 TILTN
96 HPFIN
98 RFDIF
53~55 PWM1~3
95 HPFOUT
ARF 111
NARF 110
IC5262
C0ABBA000121
FEP OP AMP
2
5
7
1
IC5264
C0JBAR000155
2CH MULTIPLEXOR
6
5
IC2501
C0GBG0000033
MOTOR DRIVER
IC6251
C0CBCBE00001
REGULATOR D3.3V
8 VCC CH1,2
STEPPING MOTOR UNIT
STEPPING MOTOR
M2501
M2502
VO3- 18
VO3+ 17
VO4- 16
VO4+ 15
OPTICAL PICK UP UNIT
ACTUATOR
FOCUS COIL
TRACKING COIL
ACT F+
ACT F-
ACT T+
ACT T-
VO2+ 12
VO2- 11
VO1+ 14
VO1- 13
65 TBAL
66 FBAL
32 VSS
117~120 AD0~3
84 JLINE
124 TECAPA
51 OFTR
52 BDO
82 TSTSG
TRSDRV 67
DAC0,1 114,115
SPDRV 68
TILTP 70
TILT 71
26 TRIN
3,2 VIN2,VIN1
23 VIN3
27 MUTE3
9 MUTE12
PWM5 61
D2001
SW2601
PWM4 56
QR5241
SWITCH
+B
75 IDGT /TEMUTE
74 DTRD
47 NRST
6 WAITODC
2 NINT1
37~44 CPUDT0~7
36 NRD
35 NWR
34 NCS
9~17, 22~30 CPUADR0~17
5 NINT2
HDD8~15 149,151,158,160, 164,166,168,172
DA2 136
VFOSHORT 83
OSCI1 79
INTRQ 141
MASTER 176
IC6801
MN5B00
WATER MARK
IC6261
C0DBFFG00004
REGULATOR
+B
2 VDDCORE
IC6521
C0JBAB000356
CLOCK
3,33 EXSCK, EXDCK
31 NRESET
39 NHCS
41 NHRE
42 NHINT
43 NHDK
NHWE 37
EXPCK0 51
EXBCK0 53
EXLRCK0 54
DIN0~2 19,47,58
HA0~2 28,29,35
HD0~7 9,10,14, 17,21~27
SAGCAN
D
NRD
NWEL
NSODCCS
A
ADSCIRQ
STENABLE
STVALID
CLK16M
VFOSHORT
STCLK
STD
INA
NRST
NWMCS
NRD
WMIRQ
WAIT

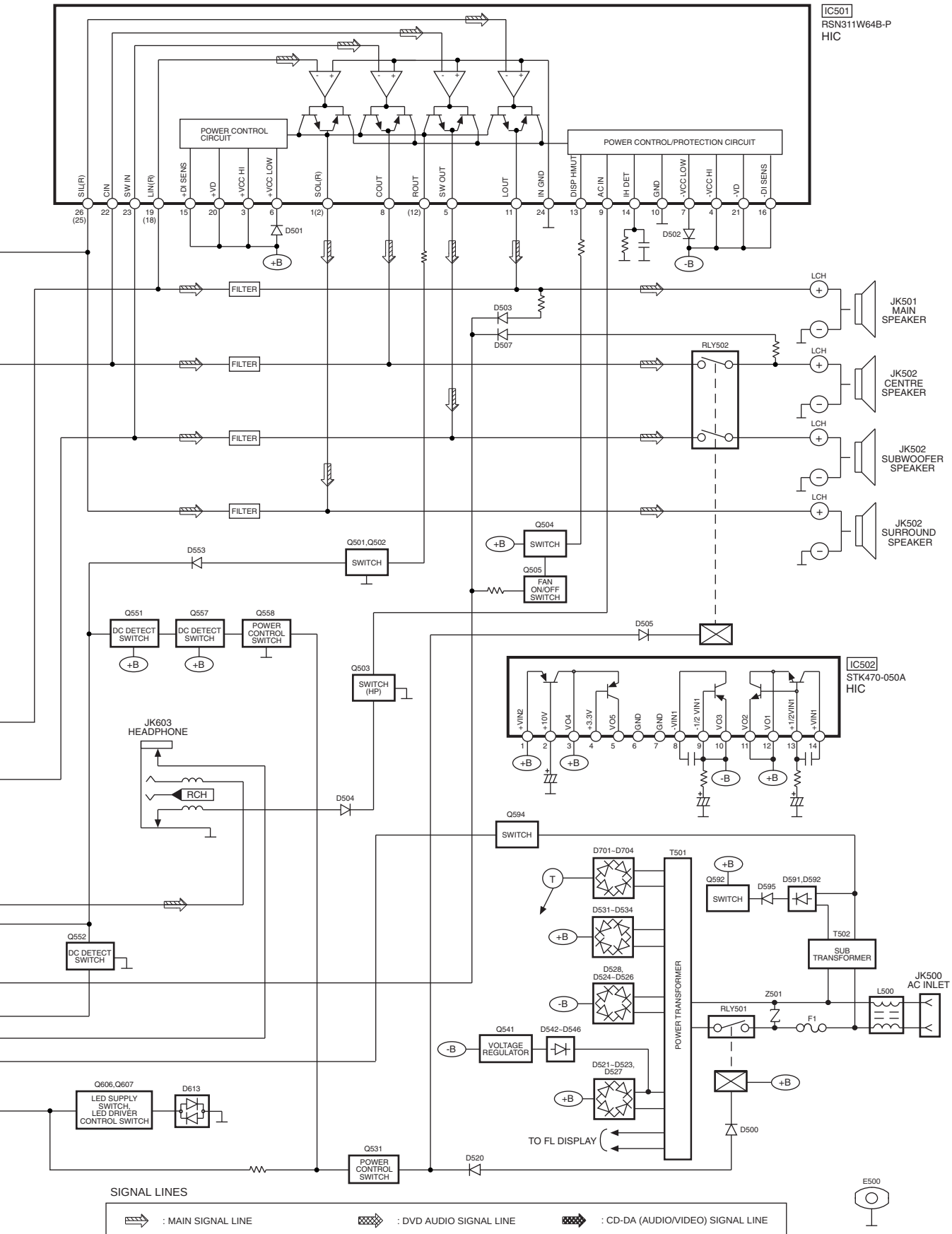

IC3751
C1AB00001499
PROGRESSIVE
D/A CONVERTER
Y[0]–[7]
V[0]–[7]
DV/CLKOUT
NVSYNC
NHSYNC
U[0]–[7]
CLKIN
SDA
SCL
RESETB
DACC
DACA
DACB
SCLOCK
SDATA
Q3761
Q3766
Q3771
HIGH FREQ AMPLIFIER
IC3261
C0JBAR000290
TRIPLE 2CH ANALOG MULTIPLEXOR/ DEMULTIPLEXOR
CB/B
Y
CR/R
PISEL
IC3001
MN677531KA
AV DECODER
IC3701
C1AB00001554
PROGRESSIVE
SCL
SDA
YCLKO
B/CBOUT2–9
H/CSYNCO
VSYNC/CREFO
VREFO
R/CROUT2–9
G/YOUT2–9
RESETB
PIXCLK
B/CBIN2–9
CLK27
VD0–7
BSEL
MEMCLKD
DATA0–29
ADDR10–0
WEN
RASN
CASN
IC3731
C3ABPJ000018
64M SDRAM
BSO
CLK
DQ0–29
A0–10
CAS
RAS
WE
IC3071
C0CBCBD00002
REGULATOR
CPMPC
IC3061
C3ABPG000068
64M SDRAM
MDQ0–15
MA0–11
Q3101
Q3116
Q3106
Q3111
AMPLIFIER
VYOUT
VCBOUT
VCOUT
VCROUT
DACCK
STD
STD0–7
NWEL
STCLK
VSTR
DACCK
STENABLE
VRQ
SRCK
STVALID
AUDSTR
LRCK
D
HD0–15
AOUT
A
HA1–17
B
XCS, HCLK
NRD
XRD
NWEL
XWR
NWEH
XWRH
WAIT
XDK
AVIRQ
XHINT, XHINT2
IC4211
C0FBBK000022
8CH AUDIO
D/A CONVERTER
DMIX
ADOUT0–2
LRCK
SRCK
EXTCK
XRST
DATA4
DIN1–3
LRCIN
BCKIN
SCLKI
RSTB
MDO
MDI
MC
ML
ZFLGA
VOUT3 (VOUT4)
VOUT5
VOUT6
VOUT1 (VOUT2)
VOUT7 (VOUT8)
ZFLAG
SL(R)
CENT
SUBW
FL(R)
MIXL(R)
IC6223
C0JBAA000001
CMOS LOGIC
IC6222
C0JBAA000001
CMOS LOGIC
STS
DCLK
AMUT
DCMD
CB/B
Y
A
TO MAIN BLOCK
CLK27M
NRST
EXTCLK
SRCK
LRCK
AOUT
SBI1
SBO1
SBT1
STBDAC
STATUS
DAC2
AMUT
DCMD
CB/B
Y

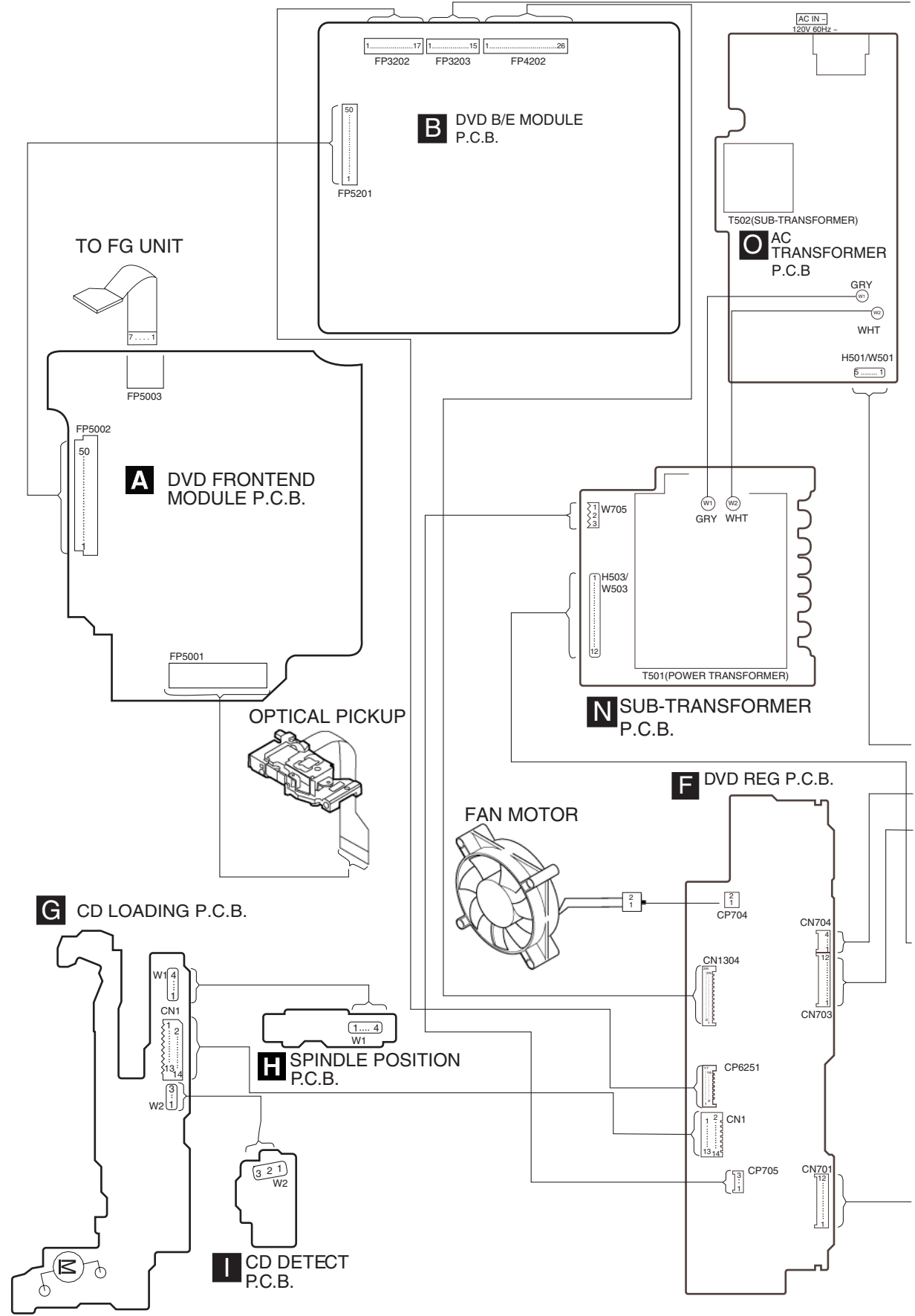

D
TO DVD BLOCK
CR/R
CB/B
Y_OUT
C_OUT
PROG
SEL
Q139
CONTROL SWITCH
Q120
SWITCH
IC101
C9ZB00000377
VIDEO BUFFER
CFIL
MUTE
CIN
20K
1.5-6M BPF
GND
YIN
6M BPF
+B
VCC1
CLAMP
GND
CLAMP
PYIN
12M BPF
GND
L101
PYFIL
VCC2
CBIN
6M BPF
20K
L111
GND
CRIN
6M BPF
20K
SEL
CRFIL
6dB
75ohm
COUT
TEST
MIXOUT1
MIXOUT2
GND
YFIL
GND
YOUT1
YOUT2
GND
PYOUT1
PYOUT2
GND
CBOUT
CBFIL
CROUT
SEL
Q138
PROGRESSIVE SWITCH
DCIN
JK101
VIDEO OUT
JK102
Y
JK102
CB
JK102
CR
IC1
C0GAM0000005
MOTOR DRIVE
Vs
IN1
IN2
REG
OUT1
OUT2
RM1
VREF
VCC
GND
D2
Q1
POWER SUPPLY CONTROL
L1
Q451
SWITCH
Q452
PLUNGER SUPPLY CONTROL
SW1
SW2
SW3
SW4
SW5
D1
GP1S94
Q701
SWITCH
Q702
POWER SUPPLY CONTROL SWITCH
D705
D711–
D713
Q710–
Q713
REGULATOR
VOLTAGE REGULATOR
IC703
LM2940T5M
D708
VOLTAGE REGULATOR
IC702
C0DBAJG00002
Q705
CURRENT LIMITING SWITCH
VOLTAGE REGULATOR
IC740
C0DBAJG00002
D740
Q704
REGULATOR
Q703
REGULATOR
T
CW
CCW
PLG
HALF
SW5
SW4
PSTN
SW3
SW1
SW2
PWCONT
IC451
C2BBFD000307
MECHA-CONTROL
DVD_CLK
DVD_CMD
DVD_STAT
OPN
MUTE
XOUT
XIN
X451
REST
DATAI
DATAO
B_CLK
B_CS
B_REQ
MECHRS
MECHSO
MECHSI
MECHCK
MECHCS
MECHRQ

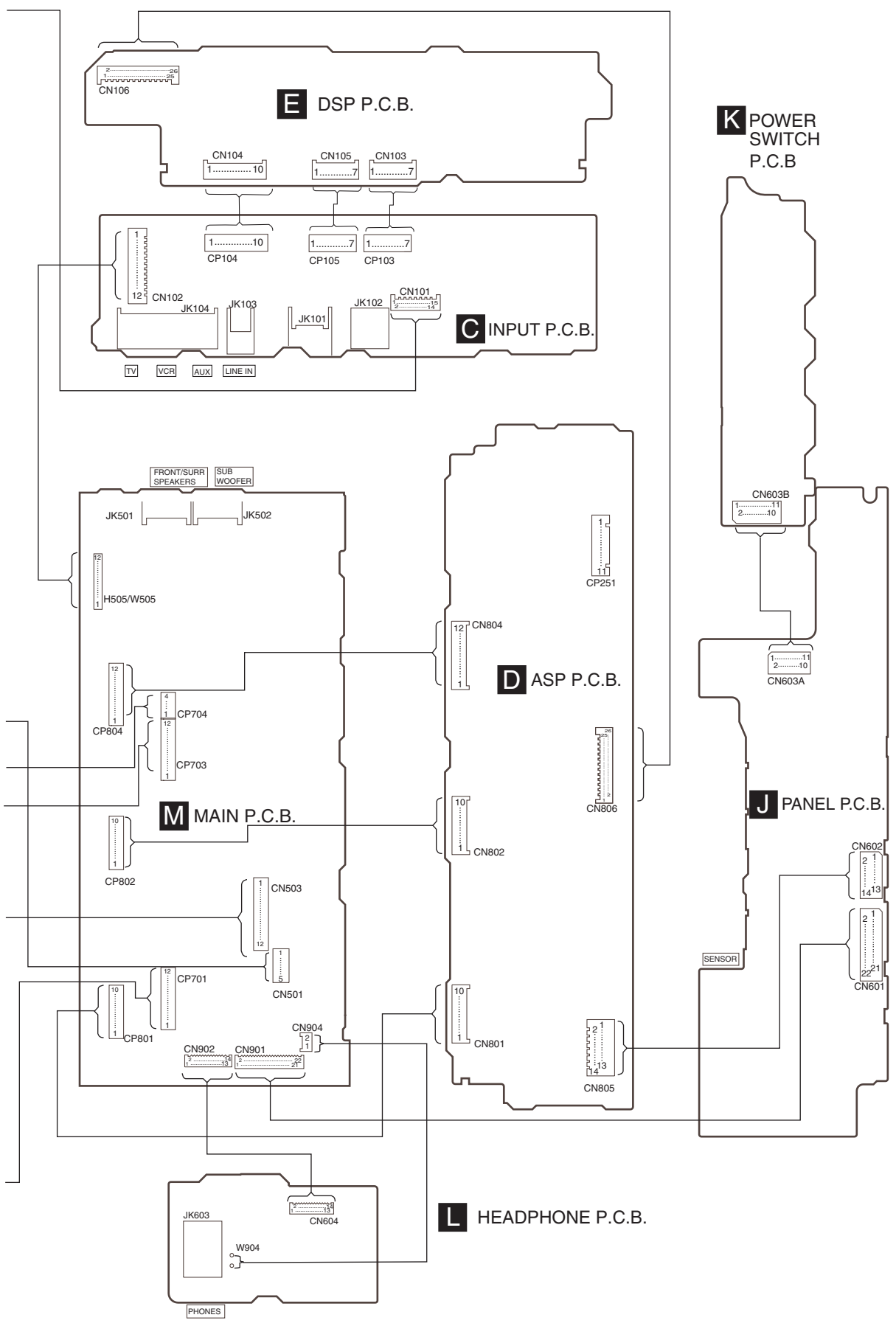

TUNERL(R)
NJ-ST
NJ-CK
NJ-DT
6CHSL(R)
6CHC
6CHFL(R)
6CHSW
WIDE1
IC803
M5228FPE1
QUAD OP-AMP
8(7)
10(5)
9(6)
12(3)
13(2)
14(1)
14
16
17
ST
CK
DATA
TV
VCR
AUX
JK104
2(29)
3(28)
4(27)
5(26)
6(25)
JK103
LINEOUT
9(22)
8
7(24)
11(20)
12(19)
10
IC802
NJU7313AMT2
ANALOG SWITCH
Q810
SWITCH
MIXL(R)
68(72)
66(70)
LIN1(R)
LIN3(R)
IC801
C2HBZC000013
DSP
A0T1
A0T3
A0T4
IFDI
IFCK
/CS
/RST
11(14)
27
30
54
53
52
50
DSPFL(R)
DATA
CLOCK
DCSI
DRST1
XO
XI
4
3
X801
DATA
LATCH
CLOCK
IC252
M5228FPE1
QUAD OP AMP
SL
SW
CNT
6(2)
5(3)
7(1)
9
10
8
13
12
14
6CHSL(R)
Q252
MUTING
SWITCH
6CHSW
Q253
MUTING
SWITCH
6CHC
TUNERL(R)
SER1
SER2
SER4
SENSE
DSPACK
DSPRST
IC253
KIA4558FEL
DUAL
OP AMP
FL
6CHFL(R)
Q251
MUTING
SWITCH
DSPCLK
CMD
STAT
WIDE1
AMUTE
D251
D451
Q255,Q256
MUTING
CONTROL
SWITCH
Q254
CONTROL
SWITCH
D252
ZFLAG


IC108
C0JBAR000292
TRIPLE 2CH ANALOG MULTIPLEXOR
IC106
M62444FPE1
DPL SURROUND DECODER
PORT1
PORT2
PORT3
PORT4
PORT5
PORT6
DATA
LATCH
CLOCK
MCU I/F
S_MUT
DSPFL(R)
PROG
DCIN
TUNER PACK
IC602
BR93LC46FE2
EPROM
KEY SWITCH
(JOG VOL)
VR601
DSPRST
DSPACK
SENSE
SER4
SER2
SER1
SD IN
DO/ST
SER3
KEY1,KEY2
EDA
ECK
ECS
JOG1B
JOG1A
IC601
C2BBGF000361
SYSTEM CONTROL
MECHSI
MECHSO
MECHCK
MECHRQ
MECHCS
MECRST
GRD1-8
AND1-34
FL DISPLAY
FROM POWER TRANSFORMER

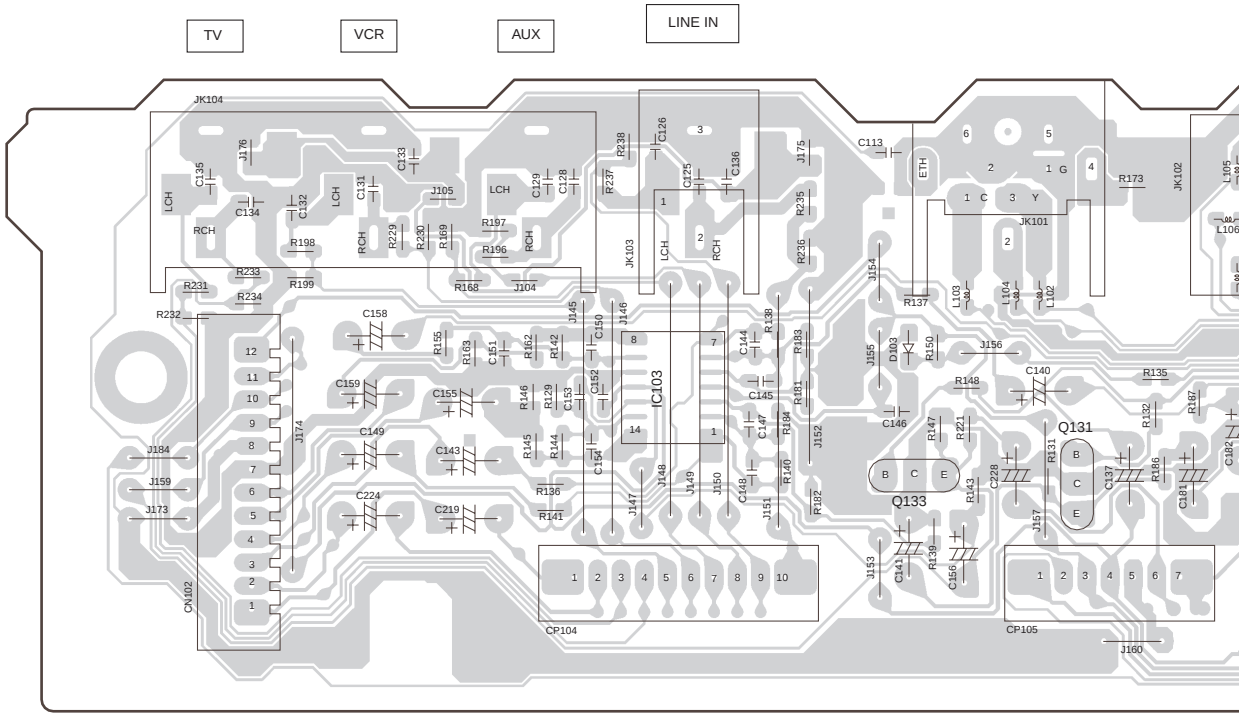

NJ_ST
NJ_CK
NJ_DT
SER4
SENSE
DSPACK
SER2
SER1
DSPRST
DRST1
DCSI
LATCH
CLOCK
DATA
4
5
6
7
8
9
10
11
12
18
31
32
34
35
36
NJ-ST
ECK/NJ-CK
EDT/NJ_DT
DCS
SENSE
DACK
DCK
DDO
DDI
RESET
RST1
CS1
CS2
CK
DO
IC805
C2BBFD000344
DSP MECHA-CONTROL
VR-ATT
MUTESW
MUTEA
EXP17
EXP18
EXP16
EXP15
XOUT
XIN
26
27
29
23
22
24
25
20
19
X802
Q132
MUTING CONTROL
Q137
DSP MUTING CONTROL SWITCH
Q136
SUBWOOFER LEVEL CONTROL SWITCH
Q133
SWITCH
Q142 (Q143)
MUTING SWITCH
Q135
SUBWOOFER LEVEL CONTROL SWITCH
Q130(Q131)
MUTING SWITCH
IC103
M5228FPE1
QUAD OP AMP
5(3)
6(2)
7(1)
12
13
14
9
10
8
Q405
VOLTAGE REGULATOR SWITCH
Q404
CENTER FOCUS CONTROL SWITCH
Q401
SWITCH
IC402
M5228FPE1
QUAD OP AMP
Q409
CENTER FOCUS CONTROL SWITCH
Q408
SWITCH
Q402(Q403)
MUTING SWITCH
6
5
7
2
3
1
5
7
6
3
1
2
10
8
9
12
14
13
RCH
Q410
SUPPLY SWITCH
+B
Q406
MUTING CONTROL SWITCH
Q407
MUTING SWITCH
IC401
M5218AP
DUAL OP AMP
DUAL OP AMP
IC104
KIA4558FEL
+B
Q806, Q807
REGULATOR
D803
+B
-B
Q808, Q809
REGULATOR
D804
-B
D801,D802
Q805
DC DETECT SWITCH
Q553~Q556
FAN MOTOR SUPPLY SWITCH
M
DCDET
PHONE
SYNC
PCNT
28
15
32
27
IC601
C2BBGF000361
SYSTEM CONTROL
XOUT
XIN
RMT
RESET
PROGRESSIVE, WAKE LED
D1~D5 LED
23
22
31
18
41,45
1~5
X602
Z601
(REMOTE SENSOR)
Q601
RESET SWITCH
+B
Q604, Q605
LED DRIVER
D611, D612
+B
Q608~ Q612
LED DRIVER
D614~D618
+B


IC501
RSN311W64B-P
HIC
POWER CONTROL CIRCUIT
POWER CONTROL/PROTECTION CIRCUIT
SIL(R)
CIN
SW IN
LIN(R)
DI SENS
VD
VCC HI
VCC LOW
SOL(R)
COUT
ROUT
SW OUT
LOUT
IN GND
DISP HMUT
AC IN
IH DET
GND
-VCC LOW
-VCC HI
-VD
DI SENS
D501
D502
+B
-B
FILTER
D503
D507
RLY502
LCH
JK501 MAIN SPEAKER
JK502 CENTRE SPEAKER
JK502 SUBWOOFER SPEAKER
JK502 SURROUND SPEAKER
Q504
SWITCH
Q505
FAN ON/OFF SWITCH
D553
Q501,Q502
SWITCH
Q551
DC DETECT SWITCH
Q557
DC DETECT SWITCH
Q558
POWER CONTROL SWITCH
D505
IC502
STK470-050A
HIC
+VIN2
+10V
VO4
+3.3V
VO5
GND
GND
VIN1
1/2 VIN1
VO3
VO2
VO1
-1/2VIN1
-VIN1
JK603 HEADPHONE
RCH
Q503
SWITCH (HP)
D504
Q594
SWITCH
D701~D704
D531~D534
D528, D524~D526
Q541
VOLTAGE REGULATOR
D542~D546
D521~D523, D527
T501
POWER TRANSFORMER
TO FL DISPLAY
Q592
SWITCH
D595
D591,D592
T502
SUB TRANSFORMER
JK500 AC INLET
Z501
L500
RLY501
F1
D500
Q552
DC DETECT SWITCH
Q606,Q607
LED SUPPLY SWITCH, LED DRIVER CONTROL SWITCH
D613
Q531
POWER CONTROL SWITCH
D520
E500
SIGNAL LINES
: MAIN SIGNAL LINE
: DVD AUDIO SIGNAL LINE
: CD-DA (AUDIO/VIDEO) SIGNAL LINE
: DVD AUDIO/VIDEO SIGNAL LINE
: DVD VIDEO SIGNAL LINE
: FM & AM SIGNALS LINE
( ) Indicates the Pin No. of Right channel.

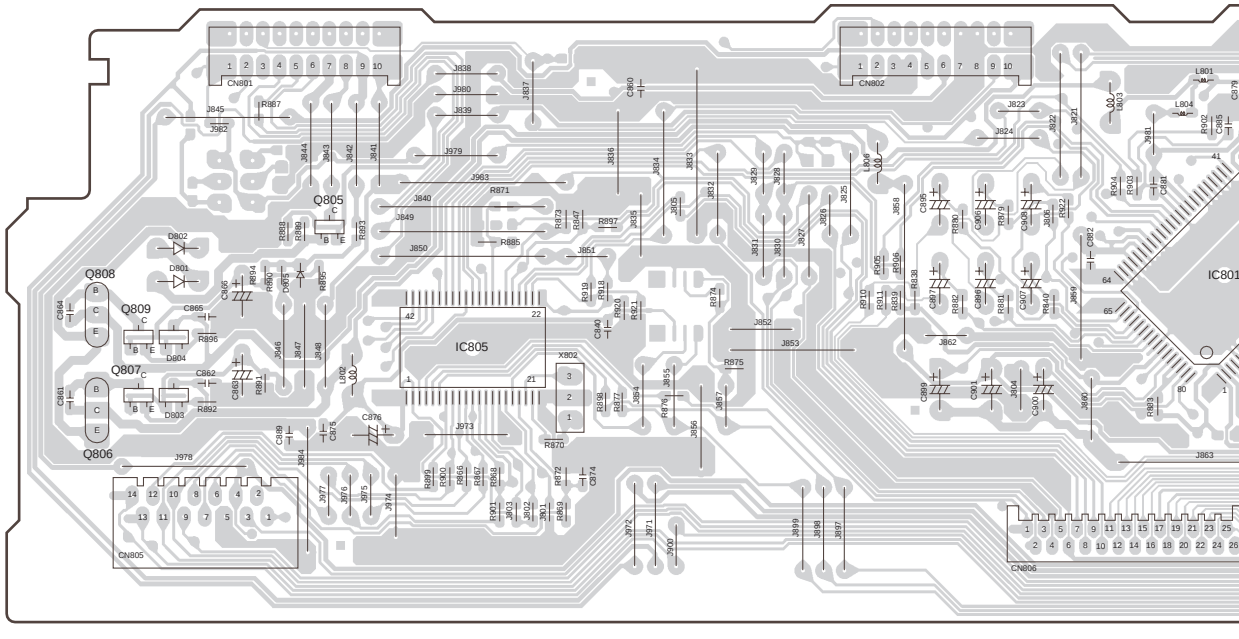

FP3202
FP3203
FP4202
FP5201
B DVD B/E MODULE P.C.B.
AC IN ~
120V 60Hz ~
T502(SUB-TRANSFORMER)
O AC TRANSFORMER P.C.B
GRY
WHT
H501/W501
TO FG UNIT
FP5003
FP5002
A DVD FRONTEND MODULE P.C.B.
FP5001
W705
H503/ W503
GRY
WHT
T501(POWER TRANSFORMER)
N SUB-TRANSFORMER P.C.B.
OPTICAL PICKUP
F DVD REG P.C.B.
FAN MOTOR
CP704
CN704
CN1304
CN703
G CD LOADING P.C.B.
W1
CN1
W1
H SPINDLE POSITION P.C.B.
CP6251
CN1
W2
CP705
CN701
W2
I CD DETECT P.C.B.


E DSP P.C.B.
CN106
CN104
CN105
CN103
CP104
CP105
CP103
CN102
JK104
JK103
JK101
JK102
CN101
C INPUT P.C.B.
TV
VCR
AUX
LINE IN
K POWER SWITCH P.C.B
CN603B
CN603A
FRONT/SURR SPEAKERS
SUB WOOFER
JK501
JK502
H505/W505
CP251
CN804
D ASP P.C.B.
CP804
CP704
CP703
CN806
M MAIN P.C.B.
J PANEL P.C.B.
CP802
CN802
CN503
CN501
CN602
CN601
SENSOR
CP701
CP801
CN904
CN902
CN901
CN801
CN805
JK603
CN604
W904
L HEADPHONE P.C.B.
PHONES

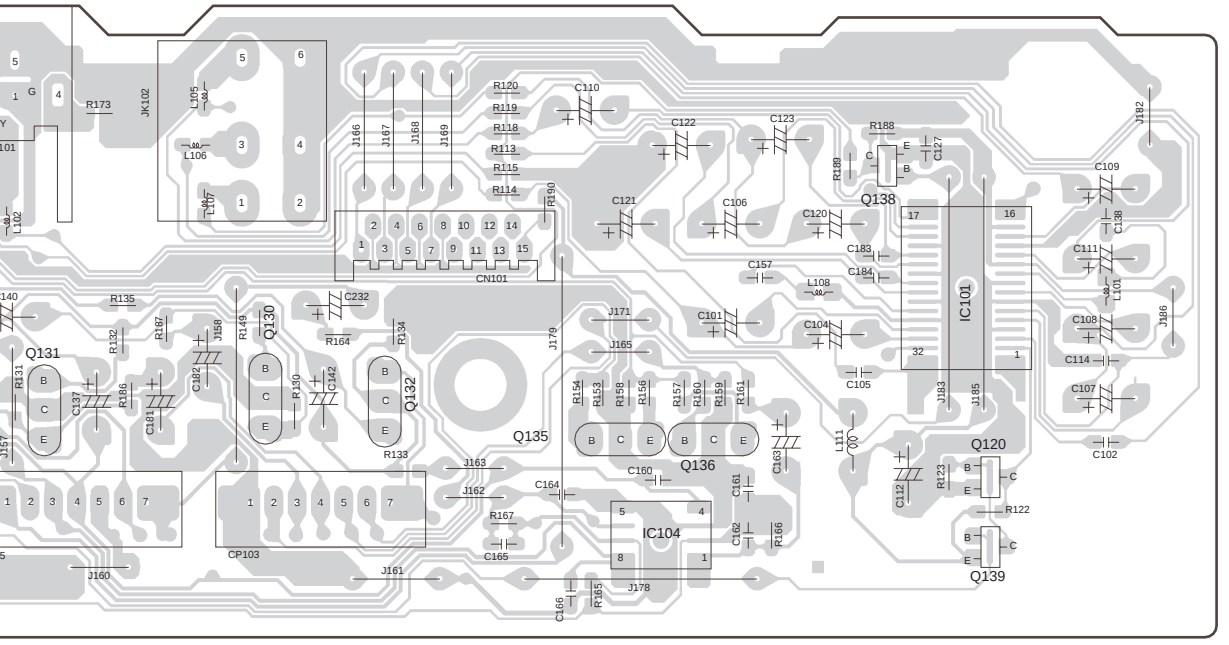
C INPUT P.C.B. (REP3376A)



E DSP P.C.B. (REP3376A)



G H I J K L M


Q131
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CP103
JK102
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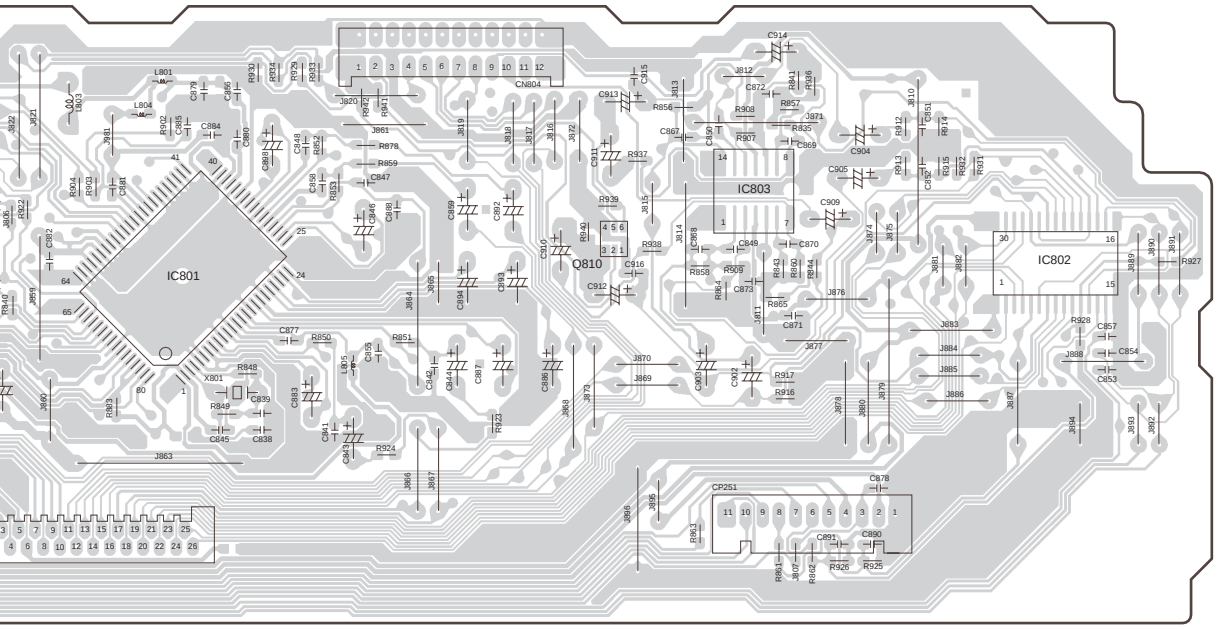
IC801
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